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प्राधिकार से प्रकाशित
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No. 29] NEW DELHI, SATURDAY, JULY 18, 1987 (ASADHA 27, 1909)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2 (PART III—SECTION 2)

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
(Notifications and Notices issued by the Patent Office relating to Patents and Designs)

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PATENTS AND DESIGNS
Calcutta, the 18th July 1987

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Patent Office Branch,
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APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

214, ACHARYA JAGADISH BOSE ROAD,
CALCUTTA-700020

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

10th June, 1987

450/Cal/87. Nauchno-Issledovatel'sky Institut Tekhnologii Avtomobilnoi Promyshlennosti (Niiitavtoprom). Method of obtaining a coating on elongated work-pieces.

451/Cal/87. Tritzschler GmbH & Co. Kg. A device for the detection of the level of filling in a fibre material storage, in particular for the spinning processing machines.

452/Cal/87. Westinghouse Electric Corporation. Improvements in or relating to silicon feed system.

453/Cal/87. Carpenter Technology Corporation. Corrosion resistant age hardenable nickel-base alloy.

454/Cal/87. Dr. Upendra K. Banik. Process for the preparation of gastrointestinal composition (10th August 1984) [Divisional date 26th July, 1985].

The 11th June 1987

455/Cal/87. Blagoveschensky Gosudarstvenny Meditsinsky Institut. Device for Cleansing the Colon.

456/Cal/87. Castolin S. A. A device for the thermal spraying of build-up welding materials.

457/Cal/87. Carpenter Technology Corporation. Hot work tool steel.

The 12th June 1987

458/Cal/87. Lipton India Limited. Tea quality assessment machine.

459/Cal/87. McDermott International, Inc. Method for recovery of natural gas liquids.

460/Cal/87. Kievsky Politekhnikhesky Institut Imeni 50-Letia Velikoi Oktyabrskoi Sotsialisticheskoi Revolutsii. Piezoelectric Motor.

The 15th June 1987

461/Cal/87. Goutam Kumar Ghosh. Pneumatic fluid-cum-dust evacuating apparatus.

462/Cal/87. 1. Japan Pipe Conveyor Co. Ltd. 2. Haruo Ozaki. A tubular belt conveyor.

463/Cal/87. The Boler Company. Improved Tandem Axle walking beam suspension.

464/Cal/87. Aluminium Pechiney. Method for the individual marking of precooked anodes for the electrolytic production of aluminium.

465/Cal/87. Aluminium Pechiney. Pipes having orientable nipples for furnaces for firing carbonaceous blocks.

466/Cal/87. The Babcock & Wilcox Company. Safety system for coal pulverizers. [Divisional date 27th June, 1984].

467/Cal/87. Melvin Millard Melton. Animal Trap.

The 16th June 1987

468/Cal/87. Fried Krupp Gesellschaft Mit Beschränkter Haftung. Cutting Tool.

469/Cal/87. Mudcleaning Services Amsterdam B. V. A method of separating and recovering a granulate from a viscous suspension containing said granulate, and apparatus for carrying out said method.

The 17th June 1987

470/Cal/87. Powertron Limited. Improvements in and relating to power supplies for electrical and electronic equipment. (19th June 1986) U.K.

471/Cal/87. Peter M Schwolsky and Steven Kaali. Contraceptive method and device employing electric forces. (Convention date 19th September, 1986 (8622512) U. K.

472/Cal/87. E. I. Du Pont De nemours and Company. A system useful for controlling multiple synchronous secondaries of a linear motor along an elongated path.

473/Cal/87. Vsesojuzny Nauchno-Issledovatel'sky I Proektny Institut Aluminievoy, Magnievoi I Elektrodoznoi Promyshlennosti. Method of processing red mud waste product of alumina production.

ALTERATION OF DATE

160497. (143/Mas/84) Ante dated to 22nd April, 1987

160577. (968/Del/84) Ante dated to 30th March, 1981

160590. (306/Del/85) Ante dated to 19th October, 1981.

160601. (609/Mas/84) Ante dated to 13th November, 1981.

160602. (661/Mas/84) Ante dated to 15th October, 1981.

160603. (746/Mas/84) Ante dated to 20th May, 1982.

160604. (747/Mas/84) Ante dated to 20th May, 1982.

160605. (748/Mas/84) Ante dated to 20th May, 1982.

160607. (963/Mas/84) Ante dated to 14th December, 1982.

160608. (964/Mas/84) Ante dated to 14th December, 1982.

160609. (993/Mas/84) Ante dated to 14th December, 1982.

160610. (1000/Mas/84) Ante dated to 18th May, 1982.

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office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS : 56 E

160492

Int. Cl. : B 01 d 3/14.

"PROCESS AND APPARATUS FOR FRACTIONAL DISTILLATION UNDER VACUUM".

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., CAREL VAN BYLANDLAAN 30, 2596 HP, THE HAGUE, A NETHERLANDS COMPANY.

Inventor : ENNO FRANK WIJN.

Application for Patent No. 113/Mas/84 filed on 21st February 1984.

Convention date on 23rd February 1983/8305015/(Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

15 Claims

Process for the fractional distillation of a liquid under vacuum comprising heating the liquid, forming under vacuum the heated liquid into a first series of thin sheets of free falling liquid to be distilled and a cooling liquid into a second series of thin sheets of free falling cooling liquid, the thin sheets of the first series alternating with the thin sheets of the second series in close proximity to one another, thereby allowing part of the liquid to be distilled to vaporize and to pass to the thin sheets of cooling liquid to form liquid distillate, causing the thin sheets of cooling liquid and thin sheets of heated liquid to be distilled to pass through liquid redistributing means and separately recovering the liquid distillate with the cooling liquid and the non-vaporized part of the liquid.

Compl. specn. 16 pages.

Drgs. 3 sheets

CLASS : 60 B & 60 D

160493

Int. Cl. : A 44 b 13/00, 21/00.

SEPARABLE FASTENERS OF LAMINATE CONSTRUCTION AND AN APPARATUS FOR AND METHOD OF MANUFACTURING.

Applicant : ACTIEF N. V., 17, PIETERMAAL, WILLEMSTAD, CURACAO, NETHERLANDS ANTILLES.

Inventors : (1) PHILIPP SCHAEFER AND (2) HELMUT SCHAEFER.

Application No. 117/MAS/84 filed February 21, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

41 Claims

A separable fastener of laminate construction which comprises :

- (a) a layer of outer material having on its upper side, a predetermined appearance and texture, said material having compressible properties on the lower side; and
- (b) a strip of separable fastener material adhesively secured on its upper side to the lower side of said outer material layer, said strip of fastener material having upstanding from its lower side, a plurality of engaging elements such that said fastener material and said outer material layer may be selectively and repeatedly engaged with a strip of complementary engaging elements of another fastener material.

Compl. specn. 24 pages.

Drg. 1 sheet

CLASS : 107 C.

160494

Int. Cl. F 01 b 1/00.

AN INTERNAL COMBUSTION ENGINE.

Applicant & Inventor : KADAMBI SESHADRI, ENGINEER, NO. 4, THIRD MAIN ROAD, PAMMAL-ANNA NAGAR, MADRAS-600 075, TAMIL NADU, INDIA.

Application No. 119/MAS/84 filed February 22, 1984.

Complete Specification left on 23rd March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 claims

An internal combustion engine comprising at least three cylinders each provided with a piston, characterised in that the cylinders are arranged to open out into a common combustion chamber located just beyond the top dead centre position of each piston, the chamber being provided with a spark ignition or fuel injector system for combusting the fuel mixture therein on completion of the compression stroke.

Provisional Specn. 8 pages. Drgs. 2 sheets.

Complete Specn. 8 pages. Drgs. 3 sheets.

CLASS : 103.

160495

Int. Cl. : B 44 d 1/094 & 1/097.

A COMPOSITION FOR THE PRODUCTION OF CORROSION AND EROSION RESISTANT COATING BY THERMAL SPRAYING.

Applicant : CASTOLIN S.A., OF 1025 SAINI-SULPICE, SWITZERLAND A SWISS COMPANY.

Inventors : (1) WOLFGANG SIMM AND (2) HANS-THEO STEINE.

Application No. 125/MAS/84 filed February 23, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 claims

A composition for the production of corrosion and erosion resistant coating by thermal spraying comprising a mixture of a self-fluxing alloy powder and a powder of metal carbide or carbides as herein defined, the carbide content of the mixture being comprised between 20 and 80 percent by weight thereof and said alloy having the following composition in percent by weight :

Cr 18.0—35.0%.

Fe 0.1—25.0%.

B 0.5—4.5%.

Si 0.5—5.5%.

C 0.01—2.0%.

Mo 0—15.0%.

Nb 0—2.0%.

Remainder

Complete Specn. 7 pages. No drg. sheet.

CLASS : 98 G.

160496

Int. Cl. : F 28 d 9/00.

HEAT EXCHANGING DEVICE WITH HEAT EXCHANGING PLATES.

Applicant : MITSUBISHI DENKI KABUSHIKI KAISHA, A JAPANESE COMPANY OF NO. 2-3, MARUNOUCHI 2-CHOME, CHYODA-KU, TOKYO, JAPAN.

Inventors : (1) MITSURU SHIRAI, (2) NOBUO FUKUDA, (3) AKIRA YAMAMOTO AND (4) HIROSHI TSUDI.

Application No. 141/MAS/84 filed March 6, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 claims

A heat exchanger for a heat generating unit, mounted within a fluid enclosure, including a plurality of spaced, parallel, horizontally aligned and vertically oriented heat exchanging plates having internal fluid flow passages characterized by spaced upper and lower flanges connecting manifolds mounted around upper and lower first openings in a sidewall of the enclosure, said manifolds thus communicating directly with the interior of the enclosure, and each having an outer wall defining a plurality of spaced, horizontally aligned second openings, each of said heat exchanging plates having third openings at upper and lower corners of one side, said third openings being matingly configured to said second openings and said plates being individually and sealingly mounted to said upper and lower manifolds such that said second and third openings are coextensive and define through passages communicating between the interiors of the enclosure and the respective plates.

Complete specification 8 pages. Drgs. 4 sheets.

CLASS : 50 E 2.

160497

Int. Cl. F 25 b 1/04, 31/03.

"HERMETIC MOTOR COMPRESSOR".

Applicant : TECUMSEH PRODUCTS COMPANY, OF 100 EAST PATTERN STREET, TECUMSEH, MICHIGAN 49286; UNITED STATES OF AMERICA, A CORPORATION OF THE STATES OF MICHIGAN, UNITED STATES OF AMERICA.

Inventor : "DONALD LAWRENCE KESSLER".

Application No. 143/Mas/84 filed on 7th March 1984.

Division of Application No. 425/Cal/81, dated 22nd April 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rule 1972) Patent Office Branch, Madras.

6 claims

A hermetic motor compressor unit comprising : an outer housing a stator disposed within the outer housing, said stator including a central opening therethrough, an electrical field winding disposed in the stator, a crankcase including a cylinder, a piston slidably received in said cylinder, a crankshaft rotatably mounted in said crankcase and including a rotor secured thereto, said rotor being concentrically disposed in the central opening of said stator, said rotor and crankshaft rotating about a common axis, a connecting rod journaled on said crankshaft and connected to said piston, said crankcase including only three downwardly extending mounting legs which are positioned along three coplanar radii perpendicular to the axis of rotation of said crankshaft and spaced 90° apart, said legs having respective lower surfaces which are in engagement with said stator and are secured to said stator by means of three threaded connecting members which extend through said stator and are secured to said mounting legs, and means for resiliently mounting the crankcase and stator assembly in said outer housing.

Complete specification 31 pages. Drgs. 5 sheets.

CLASS : 39 G. 141 E.

160498.

Int. Cl. : C 22 b 53/00, C 01 g 23/02.

PROCESS FOR PRODUCING TETRACHLORIDE FROM NATURAL OR SYNTHETIC TITANIUM ORE, CARBONACEOUS REDUCTANT AND CHLORINE.

Applicant : KERR-McGEE CHEMICAL CORPORATION, A CORPORATION INCORPORATED IN THE STATE OF DELAWARE, U.S.A., KERR-McGEE CENTER, OKLAHOMA CITY, OKLAHOMA 73125, U.S.A.

Inventor : THEODORE A. RADO.

Application No. 148/MAS/84, filed on March, 9th, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, Madras.

3 Claims

A process for producing titanium tetrachloride from natural or synthetic titanium ore, carbonaceous reductant and chlorine, comprising the steps of :

providing a first quantity of salt, melting at between 600 degrees centigrade and 900 degrees centigrade, in molten form having a temperature between 800 degrees centigrade and 1000 degrees centigrade in a chlorination zone; introducing the titanium ore and the reductant into the chlorination zone, the titanium ore and reductant essentially being suspended in the first quantity of salt in the molten form; passing chlorine into the chlorination zone and through the molten salt to produce for recovery a first product stream comprising titanium tetrachloride; and thereafter, if desired, passing said first product stream into a scrubbing zone provided with a second quantity of the salt in molten form to produce for recovery a second product stream comprising purified titanium tetrachloride.

Compl. Specn. 12 pages.

Drgs. 1 sheet.

CLASS : 39 L III.

160499.

Int. Cl. : C 01 g 23/02.

PROCESS FOR PRODUCTION OF TITANIUM DIOXIDE FROM TITANIFEROUS ORES.

Applicant KERR-McGEE CHEMICAL CORPORATION, A CORPORATION OF THE STATE OF DELAWARE, U.S.A., OF KERR-McGEE CENTER, OKLAHOMA CITY, OKLAHOMA 73125, U.S.A.

Inventor THEODORE A. RADO.

Application for Patent No. 149/Mas/84 filed on 9th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

6 Claims

A method for producing titanium dioxide from natural or synthetic titanium ore, known carbonaceous reductant, chlorine and oxygen comprising the steps of :

providing a first quantity of salt such as herein described melting at a temperature ranging from 600 degrees centigrade to 900 degrees centigrade in molten form having a temperature ranging from 800 degrees centigrade to 1000 degrees centigrade in a chlorination zone; introducing the titanium ore and the reductant into the chlorination zone to form a suspension of titanium ore and reductant in the molten salt in the chlorination zone; passing chlorine into the chlorination zone and through the molten salt to produce a first precursor stream comprising titanium tetrachloride; providing a second quantity of said salt in molten form in a scrubbing zone, passing the first precursor stream from the chlorination zone into the scrubbing zone to procure a second precursor stream comprising purified titanium tetrachloride; providing a stream of oxygen preheated to a temperature up to 1000 degrees centigrade; passing the second precursor stream from the scrubbing zone and the stream of oxygen to a combustion zone to produce a combustible mixture; combusting the combustible mixture in the combustion zone to form a product mixture comprising titanium dioxide, carbon dioxide and chlorine; and recovering the titanium dioxide from the product mixture in a conventional manner.

Compl. Specn. 18 pages.

Drgs. 1 sheet.

CLASS : 87 E.

160500.

Int. Cl. A 63 b 13/00.

A BARBEIL-TYPE EXERCISING DEVICE.

Applicant : DIVERSIFIED PRODUCTS CORPORATION, OF P.O. BOX 100, OPELIKA, ALABAMA 36802, UNITED STATES OF AMERICA, A CORPORATION DULY ORGANIZED UNDER THE LAWS OF THE STATE OF ALABAMA, U.S.A.

Inventors : GARY. L. ROCKWELL.

Application No. 167/MAS/84 filed on 15th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office Branch, Madras.

12 Claims

A Barbell-type exercising device adapted for use with a downwardly biased free bar, having a pair of spaced uprights and a retractable bar support assembly on each of said uprights, said bar support assembly comprising :

a bar support bracket pivoted to said right for movement between an upright, retracted position adjacent said upright and an extended bar supporting position transverse to said upright, said bracket having a projecting lip at the distal end thereof which protrudes from said upright when said bracket is in its retracted position;

stop means for limiting downward pivotal movement of said bracket to its extended position; and

Biassing means coupled to said bracket for biasing said bracket to its retracted position, whereby said bracket normally remains in its retracted position while the user exercises by raising and lowering said bar, and said bracket is deployed to its extended position to support said bar when the user desired to rest by contacting said lip with said bar during downward movement of said bar.

Compl. Specn. 13 pages.

Drgs. 3 sheets.

CLASS : 58 C.

160501.

Int. Cl. : 06 b 9/00.

WINDOW SHUTTER ASSEMBLY.

Applicant NALSON ENGINEERING CO., OF 27 C THOTTAKURICHI, KARUR TK., TRICHY DT., TAMIL NADU, INDIA, A PROPRIETORSHIP FIRM OF WHICH THE PROPRIETOR IS T. N. SIVASUBRAMANIAN, C/O. NALSON ENGINEERING CO. OF 27 C. THOTTAKURICHI, KARUR, TK., TRICHY DT., TAMIL NADU, INDIA.

Inventor : T. N. SIVASUBRAMANIAN.

Application for Patent No. 171 Mas/84, filed on 16th March, 1984.

Compl. Specn. left on 13th March, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, Madras.

11 Claims

A window shutter assembly comprising an outer frame, two nylon racks with gear teeth fixed on either side, a foldable louver with its upper end fixed on the top and lower side having a metallic strip with a mild steel rod attached thereto with the help of two plastic bearings, the said mild steel rod having a nylon gear wheel fixed at its two end which mesh and roll against the said nylon racks, the centre of the said mild steel rod having a ratchet wheel which is locked by a ratchet lock and a knob being provided to release the lock for fixing the louver in a desired position.

Prov. Specn. 4 pages.

Drgs. 2 sheets.

Compl. Specn. 6 pages.

Drgs. Nil.

CLASS : 140 A₂

160502

Int. Cl. : C 10 m 5:24

"PHOSPHORUS CONTAINING METAL SALT OLEFIN ADDITIVE COMPOSITION".

Applicant : THE LUBRIZOL CORPORATION, OF 29400 LAKELAND BLVD., WICKLIFFE, OHIO 44092, U.S.A. A CORPORATION OF THE STATE OF OHIO, U.S.A.

Inventor : CALVIN WILLIAM SCHROECK.

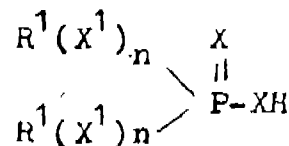
Application for patent No. 287/Del/84 filed on 31st March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

45 Claims

A phosphorus containing metal salt/olefin additive composition comprising :

(A) a metal salt of (I)(I) at least one acid of the formula



Formula

wherein each X and X¹ is independently oxygen or sulfur, each m is zero or one, and each R¹ is independently the same or different hydrocarbon based group, and (A)(II) at least one carboxylic acid of 2 to 40 carbon atoms, the ratio of equivalents of (A)(II) being in the range of 0.5 : 1 to 500 : 1, and

(B) an olefinically unsaturated compound capable of reacting with active sulfur, the ratio of equivalents of component (A) to equivalents of component (B) being in the range of 1000 : 1 to 1 : 5.

Compl. specn. 46 pages.

CLASS : 155 B

160503

Int. Cl. : B 29 d 9/08 & B 32 b 23/00, 33/00.

"PROCESS FOR THE MANUFACTURE OF LAMINATE STRUCTURES OF PVC AND NORMALLY PVC INCOMPATIBLE RUBBER".

Applicant : TBA INDUSTRIAL PRODUCTS LIMITED, A COMPANY ORGANISED UNDER THE LAWS OF GREAT BRITAIN, OF 20 ST MARY'S PARSONAGE, MANCHESTER M 3 2 NL, ENGLAND.

Inventors : JOHN KEITH TAYLOR & FRANCIS PHILIP WINDSOR.

Application for patent No. 309/Del/84 filed on 9th April, 1984.

Convention date 12th April, 83/8309867 & 27th April, 1983/8311409/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

A process for the manufacture of a laminated structure composed of PVC and a layer of normally PVC incompatible rubber as herein defined which comprises applying to at least one surface of a PVC substrate a layer of an uncured nitrile rubber adhesive, applying over said layer a cover layer of said normally PVC incompatible rubber in uncured form and thereafter subjecting the resulting laminate to curing to produce the desired laminated structure.

Compl. specn. 9 pages.

CLASS : 146 D 1, 3, 148 H

160504

Int. Cl. : G 02 b-1/00.

"ACHROMATIC HOLOGRAPHIC ELEMENT".

Applicant : GRUMMAN AEROSPACE CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., AND LOCATED AT SOUTH OYSTER BAY ROAD, BETHPAGE, STATE OF NEW YORK, U.S.A.

Inventor : LEIB KENNETH GEORGE.

Application for patent No. 324/Del/84 filed on 16th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

An achromatic holographic diffractive optical element comprising a photosensitive recording medium having therein or on the surface thereof a combination of a plurality of series of equally spaced parallel light-diffraction surfaces forming periodic structures each combination of said periodic structures comprising a set of equally spaced reflecting surfaces extending through the thickness of said recording medium, the construction angles of said structures being related to each other as the inverse of the ratio of their sines.

Compl. specn. 15 pages.

Drgs. 4 sheets

CLASS : 55 D₂

160505

Int. Cl. : A 01n 9/00.

"IMPROVEMENTS IN OR RELATING TO THE PROCESS OF PREPARING CARBARYL EMULSIFIABLE CONCENTRATE FORMULATIONS WITH INCREASED BIOACTIVITY".

Applicant : INDIAN COUNCIL OF AGRICULTURAL RESEARCH (ICAR), KRISHI BHAVAN, NEW DELHI-110001, INDIA.

Inventors : BALRAJ SINGH PARMAR & SHIV DUTTA.

Application for patent No. 348/Del/84 filed on 25th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A process of preparing improved carbaryl emulsifiable concentrate formulations with increased bioactivity which comprises in dissolving the toxicant carbaryl, surfactant mixture of alkyl aryl sulphonates and polyoxyethylenated fatty alcohols and the usual carbaryl synergists preferably dillapiol, isobornyl thiocyanacetate and thiocyanacetates of alpha and beta pinenes in a mixed solvent system consisting of 1 : 1 to 9.9 : 0.1 of cyclohexanone : mixed solvent system of aliphatic and aromatic hydrocarbons or xylene in the preferred ratio of 10% carbaryl, 1-10 percent surfactant 0.25% synergist and balance solvent.

Compl. specn. 12 pages.

CLASS : 35 C.

160506

Int. Cl. C 04b 7/00.

"METHOD AND APPARATUS FOR PRODUCING AERATED CEMENTITIOUS COMPOSITIONS".

Applicant : COAL INDUSTRY (PATENTS) LIMITED, A COMPANY ORGANISED IN ACCORDANCE WITH THE LAWS OF GREAT BRITAIN, OF HOBART HOUSE, GROSVENOR PLACE, LONDON SW 1X 7 AE, ENGLAND.

Inventors : PETER SHEI LEY MILLS & IVOR KERSHAW DALY.

Application for patent No. 353/Del/84 filed on 25th April, 1984.

Convention date 5th May, 1987, 83/12326/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

16 Claims

A method of producing an aerated cementitious composition, comprising the stages of feeding ingredients comprising cement, foaming agent and liquid to a mixing chamber open to the atmosphere, mixing the ingredients fed to the mixing chamber, and pumping the wetted mixture produced to a desired site, the capacity of pumping being greater than the feed rate of ingredients into the mixing chamber such that in operation air is drawn into the mixing chamber and entrained in the wetted mixture.

Compl. specn. 12 pages.

Drg. 1 sheet

CLASS : 32 F₈(c)

160507

Int. Cl. : C 07 c - 29/00, 31/00.

"PROCESS FOR THE CONVERSION OF TERTIARY ALKYL HALIDES INTO THE CORRESPONDING ALCOHOLS".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860), OF RAJI MARG, NEW DELHI-1, INDIA.

Inventors : SUBRAMANIAM ANANDARAMAN, KAMBADUR NAGARAJARAO GURUDUTT COIMBATORE PANCHANADA NATARAJAN AND BHAGAVATULA RAVINDRANATH.

Application for Patent No. 380/DEL/1984 filed on 02 May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A process for the conversion of tertiary alkyl halides into the corresponding alcohol, such as herein described which comprises reacting a tertiary alkyl halide with zinc oxide and water.

Compl. specn. 4 pages.

CLASS : 208.

160508.

Int. Cl. : B 43 k 15/00.

A POCKET CUP AND CLOSURE PLUG ASSEMBLY FOR WRITING INSTRUMENTS.

Applicant : THE PARKER PEN COMPANY, A DELAWARE CORPORATION, OF ONE PARKER PLACE, JANESVILLE, WISCONSIN 53545, UNITED STATES OF AMERICA.

Inventor : BRIAN ALBERT JOHN BOOKER.

Application for Patent No. 405/Del/84 filed on 14th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

A pocket clip and closure plug assembly for easily fitting to the tubular barrel of a writing instrument by press fit, with the pocket clip extending along the side of the rear end of the barrel, and the plug portion extending into the open rear end of the barrel; the assembly comprising :

a one-piece, molded cap member having a cup like body, said cup-like body being adapted to press fit over the open rear end of said barrel,

an elongated pocket clip extending forwardly from and integral with said cup-like body along the outside thereof; and

a plug for press fitting into the open rear end of the barrel, said plug extending rearwardly from said cup-like body centrally from the inside thereof; and connected to said cup-like body by a tubular section which is open at its front end and closed at its rear end by an annular wall.

Compl. Specn. 8 pages.

Drgs. 1 sheet.

CLASS : 195 C.

160509.

Int. Cl.: G05d 16/00.

PRESSURE REGULATOR FOR GAS CYLINDERS.

Applicant : KRUXPROKON PRIVATE LIMITED, AN INDIAN COMPANY, L-3, HAUZ KHAS ENCLAVE, NEW DELHI-110 016, INDIA.

Inventor : BAI, KRISHAN GUPTA.

Application for Patent No. 408/DEL/1984 filed on 17th May, 1984.

Complete Specn. left on 21st June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

A pressure regulator for gas cylinders which comprises a body having an outlet nozzle as its integral part, said body being divided into a lower low pressure chamber and an upper chamber open to the atmosphere by means of a diaphragm, said diaphragm being actuated by a shaft one end of which rests on a jet, a lower body portion extending at the bottom of the said body and having a pin formed as an integral part of the lower body portion, a passage inside the said pin extending at one end upto and communicating with the lower pressure chamber and communicating at the other end with one or more holes provided therein, said jet being screw fitted in said passage inside the low pressure chamber, said lower body portion having two open slots on the side walls, said slots extending through and through into the side walls, a tapered wedge member slidably secured in the said slots and protruding outside the said side walls.

Prov. Specn. 8 pages.

Compl. Specn. 11 pages.

Drgs. 2 sheets.

CLASS : 180.

160510.

Int. Cl. F 24b 3/00.

AN IMPROVED HORIZONTAL MIXING TUBE BURNER.

Applicant : SUPER PARTS PRIVATE LIMITED, 14/1, MATHURA ROAD, P.O. AMARNAGAR, FARIDABAD-121 003 (HARYANA) AN INDIAN COMPANY.

Inventor : RAHOUL RAI.

Application for patent No. 414/Del/84 filed on 18th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

An improved horizontal mixing tube burner comprising a mixing tube having a tubular element and a mixing head; the said tubular element having primary air holes at its one end and the said mixing head attached to its other end; the said mixing head being the frustum of a cone having a closed bottom and an open top, the inner surface of the wall of said head being inclined to the vertical axis by approximately 7 to 10 degrees; a burner top preferably made of brass fitted

on to the open top of said mixing head by means of a ramp provided around the periphery of the said burner top, said ramp having a single row of burner ports with the minimum port length as herein before defined of 3mm.

Compl. Specn. 7 pages.

Drgs. 4 sheets.

CLASS : 49 B.

160511.

Int. Cl. A47j 49/00.

AN APPLIANCE FOR BAKING ARTICLES OF FOOD.

Applicant : COMMANDER APPLIANCES, A PARTNERSHIP FIRM WHOSE PARTNERS ARE PUSHP KAMAL SURI AND MANI SHANKER NAGAR OF WH-117, PHASE-I, MAYA PURI INDUSTRIAL AREA, NEW DELHI-110 064, INDIA.

Inventor : AMAR SURI.

Application for Patent No. 416/Del/84 filed on 18th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

3 Claims.

An appliance for baking articles of food, comprising a body having a base plate which has a central opening, a cover member removably supported on the body, opposed faces of the body and the cover member having co-operating notches for allowing discharge of hot air and a cap shaped member closed at its top, and having a plate extending outwardly from its lower and removably supported over said opening in the base plate, the cap shaped member being provided with a plurality of openings spaced from each other for discharge of hot air admitted through said opening in the base plate of the body and the said plate at the lower end of the cap shaped member forming a drip tray for receiving particles of food falling from the articles which are baked.

Compl. Specn. 8 pages.

Drgs. 2 sheets.

CLASS : 47 C, 123 & 32 B.

160512.

Int. Cl. : C05f 1/00, 3/00, 5/00, 7/00 & 9/00.

AN ANAEROBIC BACTERIAL PROCESS FOR CONVERTING ORGANIC WASTE MATERIAL INTO METHANE AND FERTILIZER.

Applicant : BIOORGANIC ENERGY, INC., A CORPORATION OF PUERTO RICO OF SUITE 1820, BANCO POPULAR CENTER, HATO REY, PUERTO RICO 00918, U.S.A.

Inventor : ROBERT PATON.

Application for Patent No. 730/Del/1983 filed on 1st November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

22 Claims

An anaerobic bacterial process for converting organic waste material into methane and fertilizer, the combination of steps comprising :

passing a low solids aqueous suspension of organic wastes having a solids content of less than about 4% by weight into the first of at least four anaerobic zones, the first and second anaerobic zones being located in one tank and the third and fourth anaerobic zones being located in a second tank, said zones being arranged for liquid communication in series adding liquid to the first zone and causing in a manner such as herein described.

liquid flow from the lower portion of the first anaerobic zone to the lower portion of the second anaerobic zone; liquid flow from the upper portion of the second anaerobic zone to the upper portion of the third anaerobic zone;

liquid flow from the lower portion of the third anaerobic zone to the lower portion of the fourth anaerobic zone; liquid flow out of the upper portion of the last anaerobic zone;

said serial liquid communication being the only liquid communication between zones, there being no passing of the settled solids from the second anaerobic zone to the third anaerobic zone,

maintaining quiescent conditions in each of said anaerobic zones whereby stratification of the mixture occurs, maintaining ambient temperature of up to 40°C in each of said zones; and collecting methane from the top of said zones and periodically removing fertilizer solids from said zones.

Compl. Specn. 20 pages.

Drgs. 1 sheet.

CLASS : 116 C

160513

Int. Cl. : B 65 g - 15/00, 15/60, 47/02.

"ANGLE STATIONS IN OR FOR ENDLESS CONVEYOR BELTS."

Applicant : ANDERSON STRATHCLYDE PLC. A BRITISH COMPANY OF 47 BROAD STREET, BRIDGETON, GLASGOW G 40 2 QW, SCOTLAND.

Inventor : ALAN STEEL.

Application for Patent No. 733/DEL/1983 filed on 02 Nov. 1983.

Convention Application No. 8232119 filed on 10 Nov. 1982 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

An angle station for an endless conveyor belt wherein there is presented to each incoming run of the belt stationary curved guide members having therein rectangular openings through which project small freely-rotatable rollers, the axis of each of said stationary guide member being in a plane below and parallel to the inner surface of the incoming belt run and extending diagonally of the spaced and parallel vertical planes containing the edges of the incoming belt run, characterised in that each stationary guide member is of the shape of a major segment of a right-circular cylinder wherein the intersections of the two diagonals of each rectangular opening are interspaced both in parallel rows which extend longitudinally of the respective part-cylindrical portion and in parallel and helical paths the means of each of which extends diagonally of the development of the part-cylindrical portion, and the segments of the curved surfaces of the freely-rotatable small rollers projecting through said openings are in attitude to change the direction of travel of the belt through 90° during passage of the belt about the part-cylindrical portion of the stationary guide member, the rectangular openings being arranged with their longer edges lengthwise of the diagonals representing the mean of the helix but with those of a plurality of the rows nearest to each end of the part-cylindrical portion slightly out of axial symmetry with said diagonals, being slightly inclined in a direction about the intersections to provide a "toe-in" relation to the line of run of the endless conveyor belt.

Compl. specn. 15 pages.

Drgs. 9 sheets

CLASS : 56 C D

160514

Int. Cl. : B 01 d 9/00, 9/02, 1/16.

"APPARATUS FOR CRYSTALLISING SOLIDS".

Applicant : UOP INC., DELWARE CORPORATION, HAVING ITS PRINCIPAL PLACE OF BUSINESS AT TEN UOP PLAZA, MT. PROSPECT AND AIGONQUIN ROADS, DES PLAINS, ILLINOIS 60016, U.S.A.

Inventor : WILLIAM EDWIN RUSHTON.

Application for Patent No. 740/DEL/1983 filed on 7th November 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A spray crystallizer for crystallizing solids from a liquid containing a dissolved solids portion comprising a crystallization vessel which is provided with a spray chamber in overlaying relation to a collection basin said spray chamber having a first opening at its upper end which communicates with the atmosphere and a lower end containing a second opening comprised by an open bottom of said spray chamber for the direct discharge of slurry from said chamber into said basin said collection basin having an open upper end which in association with the lower end of the spray chamber defines an inlet which communicates with the atmosphere for receiving air at ambient temperature and atmospheric pressure that is upwardly discharged through said spray chamber exhausted therefrom through said first opening. Spray means adjacent the upper end of said spray chamber for spraying a slurry to be concentrated and crystallized into the air flowing through said vessel, means for communicating said spray means with a slurry source, and means for discharging the slurry from said collection basin.

Compl. Specn. 19 pages.

Drgs 2 sheet.

CLASS : 76 E, 134 A & 160 C

160515

Int. Cl. : A 62 b 35/00, A 60 r 21/00.

SAFETY BELT EMERGENCY LOCKING RETRACTOR.

Applicant : BRITAX-KOLB GMBH & CO., A WEST GERMAN COMPANY OF WALDSTRASSE 2, 8065 ERDWEG, WEST GERMANY.

Inventor : HANS-HFLLMUT ERNST.

Application for Patent No. 744/DEL/1983 filed on 9th November 1983.

Convention Application Nos. 8233186 & 8300178 dated 20-11-1982 & 5-1-1983 (Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

An emergency locking retractor comprising a pair of mutually parallel frame members, a spool comprising a shaft for receiving a safety belt and a respective disc adjacent to each end of the shaft, each disc having teeth on its periphery, the spool being mounted on the frame members in bearings which permit limited movement of the spool relative to the frame members, in a direction perpendicular to the axis of rotation, between a disengaged position and an engaged position in which said teeth engage with complementary locking formations on the frame members to inhibit rotation of the spool, resilient means for exerting a biasing force to urge the spool into its disengaged position, a ratchet wheel mounted on the spool for rotation and translational movement therewith a control member mounted for pivotal movement relative to the frame members, a pawl pivotally mounted on one of the control member and the ratchet wheel, ratchet teeth on the other of the control member and the

ratchet wheel in the belt unwinding direction causes angular movement of the control member, such angular movement of the control member being arranged to cause movement of the spool into its engaged position, the control member moving with the spool as the latter moves into locking engagement.

Compl. specn. 16 pages.

Drgs. 9 sheets

CLASS : 134 A, 160 C, & 76 E

160516

Int. Cl. : A 62 B - 35/00 & A 60 r - 21/10.

"SAFETY BELT EMERGENCY LOCKING RETRAC-TOR".

Applicant : BRITEX-KOLB GMBH & CO., A WEST GERMAN COMPANY OF WALDSTRASSE 2, 8065 ERDWEG, WEST GERMANY.

Inventor : HANS-HELMUT ERNST.

Application for Patent No. 745/DEL/1983 filed on 09th November, 1983. Convention dated the 20th November, 1982. (G.B.)/8233187.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

An emergency locking retractor comprising a pair of mutually parallel frame members, a spool comprising a shaft for receiving a safety belt and a respective disc adjacent to each end of the shaft, each disc having uniformly spaced locking teeth on its outer periphery, the spool being mounted on the frame members in bearings which permit limited movement of the spool relative to the frame members, in a direction perpendicular to the axis of rotation, between a disengaged position and an engaged position in which said teeth engage with complementary teeth on the frame members to inhibit rotation of the spool, resilient means for exerting a biasing force to urge the spool into its disengaged position and actuating means operable to cause movement of the spool from its engaged position against said biasing force; the tips of the teeth on the frame members being located on a circle centred on the axis of the spool when the latter is in its disengaged position and the locking face of each of the teeth which faces away from the plane in which the axis of the spool moves between its engaged position and its disengaged position being oriented relative to the radial line from that tooth face to the axis of the spool when in its engaged position, at an angle which is the same as the angle between the locking face of each tooth of the discs and the corresponding radial line from each tooth of the discs to the centre of its respective disc.

Compl. specn. 14 pages.

Drgs. 8 sheets

CLASS : 146 AC

160517

Int. Cl. : G 01 C—9/00.

"AN INSTRUMENT FOR MEASUREMENT OF ANGULAR DISPLACEMENTS".

Applicant : PREETAM SINGH THAKUR (SUB-INSPECTOR ITBP) AN INDIAN NATIONAL OF VILLAGE BHANGLEDIA, POST OFFICE BARDHAN VIA KUTHERA DISTRICT BILASPUR, HIMACHAL PRADESH, INDIA.

Inventor : PREETAM SINGH THAKUR.

Application for Patent No. 749/DEL/1983 filed on 10th November 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

2—157 GI/87

4 Claims

An instrument for measurement of angular displacements comprising a housing, a support fixedly secured within said housing, a gravitational rotor rotatably secured to said support through a pin, a gear fixedly mounted on said pin, a pinion rotatably secured to said support, and in engagement with said gear and capable of an angular movement when said housing is displaced through an angle to the horizontal plane, a pointer for receiving an angular movement from said pinion and for traversing over a calibrated dial, said dial and pointer being disposed within a cover fitted on said housing.

Compl. specn. 6 pages.

Drg. 1 sheet

CLASS : 53 C

160518

Int. Cl. : B 62 m - 1'00.

"A LEVER PROPELLED BICYCLE PROVIDED WITH A PROPULSION MECHANISM".

Applicant : BYUNG DON YIM, OF 50 REDWOOD DRIVE, PENFID, NEW YORK, UNITED STATES OF AMERICA. U.S. NATIONAL.

Inventor : MAN TAIK SEOL.

Application for Patent No. 778/Del/1983 filed on 22nd November 1983.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

17 Claims

A lever propelled bicycle provided with a propulsion mechanism, said bicycle having a frame with a main shaft portion and a rear shaft portion disposed rearwardly of said main shaft portion on said frame, wherein said propulsion mechanism comprises a pair of propulsion levers for receiving pedals, a pair of arms, journal, said journal, said levers and said arms being a one piece assembly with one of said pair of levers and the one of said pair of arms spaced from the other of said pair of levers and the other of said pair of arms said one piece assembly being pivotally mounted on said main shaft portion, a rear axle attached to said rear shaft portion, a rear wheel hub journaled on said rear axle, a pair of chain gears spaced from each other and journaled on said rear axle, a pair of one-way clutches connecting said chain gears to said hub a chain entrained on said chain gears, and means connecting said chain to said arms to execute see-saw motion as said levers and arms are oscillated upwardly and downwardly by force supplied to said pedals.

Compl. specn. 17 pages.

Drgs. 7 sheets

CLASS : 179 F, G

160519

Int. Cl. : B 65 d - 83/00.

"GATE FOR CONTAINERS FOR STORING AND DISCHARGING LOOSE MATERIALS FOR FABRICATION OF LAMINATED ARTICLES".

Applicant & Inventor : IVAN VASILIEVICH MOKHOV, OF ULITSA PROFSOIUZNAYA, 48, KORPUS 4, kv. 20, MOSCOW, U.S.S.R. AND VASILY SERGEEVICH BOROVKOV OF ULITSA PETROVKA, 24, kv. 36, MOSCOW, U.S.S.R. BOTH NATIONALS OF THE U.S.S.R.

Application for Patent No. 781/Del-1983 filed on 24th November 1983

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A container gate comprising a housing (1) having an inlet duct (2) and an outlet duct (3), a rotor (5) having a

through by-pass hole (6) mounted on a shaft (4) journalled for rotation in said housing (1), annular grooves (7) and axial grooves (8) provided within said housing (1) along the perimeter of the openings of said ducts (2) and (3), flexible sealing tube, (9) accommodated within said grooves (7) and (8), said tubes (9) communicating by means of passages (10, 11, 12, 13) and a cavity (A) both provided in the end portion of said housing (1) with a compressed gas supply system and a vane (14) provided in said cavity (A) and rigidly secured to said shaft (4) for alternately shutting off said passages (12) and (13).

Compl. specn. 9 pages.

Drg. 1 sheet

CLASS : 130 I

160520

Int. Cl. : C 22 B—3/00, 21/00 & 23/00.

A PROCESS FOR EXTRACTION OF COBALT, NICKEL AND COPPER METAL VALUES FROM COPPER CONVERTER SLAGS AND LIKE INDUSTRIAL WASTES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : LAL BEHARI SUKLA, SARAT CHANDRA PANDA, PRAFULLA KUMAR JENA.

Application for Patent No. 788/DEL/1983 filed on 28th November, 1983.

Complete Specification left on 10th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A process for the extraction of cobalt, nickel and copper from converter and like wastes which comprises roasting the slag or wastes with sulfuric acid or ammonium sulphate at a temperature 100° C-600°C followed by leaching with water to obtain solution containing these metals as soluble sulphates thereafter filtering the solution and recovering the individual metal values by known methods.

Provisional Specification 05 pages.

Compl. specn. 08 pages.

CLASS : 83 B,

160521

Int. Cl. : A 23 I - 1/00.

A METHOD FOR PREPARATION OF A FLAVOUR-ED CHEWING GUM COMPOSITION.

Applicant : WARNER-LAMBERT COMPANY, OF 201 TABOR ROAD, MORRIS PLAINS, NEW JERSEY 07950, U.S.A., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF STATE OF DELAWARE, U.S.A.

Inventors : BERNIE BLACKWELL, SHELLEY NETHERWOOD, DOMINIC JOSEPH PICCOLO.

Application for Patent No. 012/DEL/1984 filed on the 04th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A method for the preparation of a flavoured chewing gum composition which comprises admixing a chewing gum base

of the kind described herein at a temperature from between 70°C to 120°C with a stabilized peppermint oil having a reduced menthofuran content, continuing the mixing until a uniform mixture of chewing gum base and peppermint oil is obtained and thereafter forming the mixture into suitable chewing gum shapes.

Compl. specn. 22 pages.

CLASS : 83 B,

160522

Int. Cl. : A 23 I 1/00.

A PROCESS FOR PREPARING A STABILIZED PEPPERMINT OIL CONTAINING REDUCED MENTHOFURAN CONTENT.

Applicant : WARNER-LAMBERT COMPANY, OF 201 TABOR ROAD, MORRIS PLAINS, NEW JERSEY 07950, U.S.A., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF STATE OF DELAWARE, U.S.A.

Inventors : BERNIE BLACKWELL.

Inventors : BERNIE BLACKWELL, SHELLEY NETHERWOOD, DOMINIC JOSEPH PICCOLO.

Application for Patent No. 013/DEL/1984 filed on the 04th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

10 Claims

A process for preparing a stabilized peppermint oil containing reduced menthofuran content, which comprises reacting peppermint oil with from 0.5% to 15% by weight maleic anhydride, based on the weight of peppermint oil, to form a menthofuranmaleic anhydride adduct, and recovering in any known manner from the resulting admixture of peppermint oil and menthofuranmaleic anhydride adduct the stabilized peppermint oil.

Compl. specn. 15 pages.

Drg. 3 sheets

CLASS : 125 B, [XLI(8)], 125 C [XLI(8)]

160523

Int. Cl. : Gold 9/00.

Applicant : THE DIRECTOR, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, ANSARI NAGAR, NEW DELHI-110016, INDIA A HOSPITAL AND RESEARCH ORGANISATION ESTABLISHED BY GOVERNMENT OF INDIA.

Inventors : SUDHIR KUMAR GHOSH.

Application for Patent No. 417/DEL/84 filed on the 18th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A transferring device for transferring a measured quantity of a liquid from one vessel to another comprising a bulbuous member, an opening provided in said bulbuous member (4) a valve which has a valve housing, (18) a valve chamber (7) disposed within said housing, said valve chamber (7) having an inlet and an outlet a spring (11) loaded valve tube (12) having a bush (13) at one end and disposed within said chamber and extending at its other end into said opening, in the bulbuous member said valve tube having at least one hole (17), a valve ring (15) coacting with said hole (17) so that a displacement of the tube causes the hole to be in an operable position with respect to said valve ring, said valve having an outlet for receiving a tube, the bulbuous member being provided with a second opening for admitting air.

Compl. specn. 10 pages.

Drg. 2 sheets

CLASS : 55 E1

160524

Int. Cl. : A 61 k—23/00.

A METHOD OF PRODUCING A MALARIA ASSOCIATED ANTIGEN.

Applicant : OTSUKA PHARMACEUTICAL CO., LTD., A JAPANESE CORPORATION, OF 2-9, KANDATSU-KASA-CHO, CHIYODA-KU, TOKYO, JAPAN.

Inventors : SHOSHIRO ASAKURA AND MASAKAZU ADACHI.

Application for Patent No. 438/Del/84 filed on 28th May, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A method of producing a malaria associated antigen comprising the steps of :

dissolving the precipitates of homogenized plasmodium-infected erythrocytes by means of a solubilizing agent such as herein described;

isolating glycoprotein which can be bound to lectin which can enter into specific combination with terminal monnose from the supernatant component of thus obtained solution; and

subjecting by a method such as herein described the above isolated glycoprotein to thermal treatment to produce said malaria associated antigen.

Compl. specn. 38 pages.

Drg. 6 sheets

CLASS : 201 A

160525

Int. Cl. : C 02 b 1/34 & 3/08.

APPARATUS FOR COOLING AND PURIFYING OZONE DRINKING WATER.

Applicant : RUDOLF GESSLAUER, OF WALDSTRASSE 6, D-3501 SCHAUFENBURG, WEST GERMANY, A GERMAN NATIONAL.

Inventor : RUDOLF GESSLAUER.

Application for Patent No. 451/Del/84 filed on 1st June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

Apparatus for cooling and purifying ozone drinking water comprising :

a supply system including a tank for storing water;

cooling means for cooling said water in said tank;

a measuring device for monitoring the quality of said water at a preselected location of said supply system;

an ozone generator;

an ozone injector coupled with said ozone generator to inject ozone into said water at a preselected location of said supply system for purification of said water up to a preselected drinking water quality whenever said measuring device signals that the water quality is below said preselected water quality;

faucet means for taking water from said tank; and

means for avoiding water not having at least said preselected drinking water quality from being taken from said tank through said faucet means.

Compl. specn. 16 pages.

Drg. 3 sheets

CLASS : III

160526

Int. Cl. : G 09 f 3/02, 3/04, 3/08.

LABEL.

Applicant : DOUGLAS CORNELIUS DENNY AND GRACE ELLEN ELIZABETH DENNY BOTH OF 2 BELL MEADOW, BURY ST. EDMUNDS, STAFFORD, ENGLAND AND RUSSELL WALTER DENNY AND WINIFRED MARY DENNY BOTH OF 35 HERRINGER ROAD, BURY ST. EDMUNDS, STAFFORD, ENGLAND, ALL BRITISH CITIZENS.

Inventors : RUSSEL WALTER DENNY & BARRY DOUGLAS DENNY.

Application for Patent No. 496/Del/84 filed on 19th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

3 Claims

A label comprising a first portion in the form of a strip made from a flexible sheet material and folded to provide a front sheet, a back sheet connected to the front sheet along a first fold line, and one or more additional sheets connected to the back sheet and each other along further fold lines and provided to lie below the front sheet, characterised in that said label is provided with a second portion made from flexible sheet material separate from said first portion, the rear face of said second portion having applied thereto an adhesive which is covered protectively by a releasable sheet, in that said back sheet of the first portion is secured by a first band of adhesive to the front face of the second portion, in that said front sheet has its edge remote from its fold line connection to the said back sheet secured to the second portion by a second band of adhesive so as to enclose the back sheet and said additional sheet or sheets, in that a first transverse line is provided on the front sheet along which the edge part of the front sheet remote from said first fold line can be torn away from the second portion and in that a further transverse line is provided along which the back and additional sheets not adherent to the second portion may be torn away, and in that the front sheet has holes therein a strip provided with reusable adhesive on a face thereof being so placed over the holes as to stick the front sheet through the holes re-sealably to the additional sheet or sheets.

Compl. specn. 9 sheets.

Drg. 2 sheets

CLASS : 176 I

160527

Int. Cl. : F 22 b—13/00 & F 27 b—15/00.

IMPROVED FLUIDIZED BED BOILER.

Applicant : CREUSOT-LOIRE, A FRENCH COMPANY, OF 42 RUE D' ANJOU, 75008 PARIS, FRANCE; CHARBONNAGES DE FRANCE, A FRENCH COMPANY, OF 9 AVENUE PERCIER, 75008 PARIS, FRANCE AND INSTITUT FRANCAIS DU PETROLE, A FRENCH COMPANY, OF 1 AT 4 AVENUE DE BOIS PREAU, 92502 RUEUX-MALMAISON, FRANCE.

Inventors : JACQUES DREUILHE, ROGER PUFF, JEAN-CLAUDE KITA, JEAN-FRANCOIS LARGE.

Application for Patent No. 499/Del/1984 filed on the 20th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

Improved fluidised bed boiler having at its lower part a combustion chamber which communicates with an enclosure forming, in succession, an heat exchange chamber containing water tubes, an heat exchange and dust removal chamber and a terminal heat exchange chamber, said heat exchange and dust removal chamber being divided into first and second half chambers communicating at their lower parts by a vertical internal partition, said first half chamber communicating with said heat exchange chamber through an inlet orifice located in the top part relative to said internal partition such as herein described and facing a perpendicular wall of heat exchange and dust removal chamber so that fumes enter substantially parallel to said partition and are stopped by said wall so as to change direction and to be de-dusted, said second half chamber communicating with said terminal heat exchange chamber through an outlet orifice in the top part located relative to said internal partition such as herein described and opposite said inlet orifice so as to cause a further change of direction of said fumes as well as supplementary de-dusting.

Compl. Specn. 7 pages.

Drgs. 2 sheets.

CLASS : 86B & C & 128G.

160528.

Int. Cl. : A61g 1/00, 1/02.

STRETCHER ADAPTED FOR USE BY A PATIENT.

Applicant : THE DIRECTOR, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, ANSARI NAGAR, NEW DELHI-110 016, INDIA, AND INDIAN INSTITUTE OF TECHNOLOGY, DELHI, HAUZ KHAS, NEW DELHI-110 016, INDIA, AN INDIAN INSTITUTE.

Inventors : LALIT MOHAN NATH, SUJOY KUMAR GUHA, & SNEH ANAND.

Application for Patent No. 523/Del/84 filed on 28th June, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A stretcher for patients, comprising a stretcher table supported on a pair of longitudinal rails, a pad secured to the undersurface of each of said rails, a head support at the head end of said table, a foot support at the foot end of said table, a handle at the head end and a pair of wheels at the foot end of said table.

Compl. Specn. 7 pages.

Drgs. 1 sheet.

CLASS : 70 B & 194 B & C₁₁.

160529.

Int. Cl. : H 01 j 1/00.

ELECTRO-PRECIPIATOR DISCHARGE ELECTRODES.

Applicant : DRESSER U.K. LIMITED, A BRITISH COMPANY, OF 197 KNIGHTSBRIDGE, LONDON SW7 1RJ, ENGLAND.

Inventor : TERENCE BERNARD FOWLER COTTRELL.

Application for Patent No. 531/DEL/1984 filed on 2 July, 1984.

Convention dated 14 July 1983 (8319076)/(United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

19 Claims

An electro-precipitator discharge electrode comprising :

- (a) an elongated mast;
- (b) a plurality of principal cross members fixed to the mast, extending transversely of the mast, and having apertures extending transversely in the cross members;
- (c) an elongated discharge element extending between the cross members through the apertures longitudi-

nally of the mast and being fixed in the apertures by direct biting of the material of the cross members onto the element; and

- (d) an auxiliary re-inforcing cross member also fixed to the mast, extending transversely of the mast, and having the discharge element fixed thereto, the auxiliary cross member being relatively closely spaced to an adjacent principal cross member.

Compl. Specn. 15 pages.

Drgs. 2 sheets.

CLASS : 144 E₆.

160530.

Int. Cl. : C09c 1/62.

PROCESS FOR PREPARING SOLID LOW-OR NON-DUSTING METAL PIGMENT COMPOSITIONS AND THE COMPOSITION THUS PREPARED.

Applicant : SILBERLINE LIMITED, A BRITISH COMPANY, OF 28, CHARLOTTE SQUARE, EDINBURGH EH2 4EZ, SCOTLAND.

Inventor : IAN ROBERT WHEELER.

Application for Patent No. 606/DEL/1984 filed on 26th July, 1984.

Convention date 29-7-1983/8320487/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

A process for preparing a solid low-or non-dusting, metal pigment, composition which comprises forming a coherent paste comprising an organic binder medium such as herein described, at least one organic liquid vehicle such as herein described and metal pigment such as herein described, in powder or flake form, the paste being formed by mixing a first component comprising the organic binder medium and a second component comprising metal pigment with either or both of the first and second components comprising organic liquid vehicle and the paste containing from 3 to 45 percent of the organic binder medium, based on the weight of the metal pigment, and either sub-dividing the coherent paste into particles and removing substantially all organic liquid vehicle from the particles, or removing substantially all organic liquid vehicle from the coherent paste and sub-dividing the resulting mass into particles, at least 98 percent by weight of the resulting particles being retained on a sieve having a 150 micrometer nominal aperture and each containing a plurality of metal pigment particles dispersed in a matrix of organic binder medium.

Compl. Specn. 23 pages.

CLASS : 6 A₂.

160531.

Int. Cl. : F016 9/00.

A PISTON AND CYLINDER GAS COMPRESSOR.

Applicant : BENDIX LIMITED, A BRITISH COMPANY, OF DOUGLAS ROAD, KINGSWOOD BRITOL., BS15 2NL, ENGLAND.

Inventor : BURRIÖGE GERALD.

Application for Patent No. 685/Del/83 filed on 3rd October, 1983.

Convention date 9th October, 1982/8228919/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A piston and cylinder gas compressor comprising a housing having bearings and a crankshaft rotatable therein said crankshaft having a crank coupled via a connecting rod to a piston located in a cylinder and reciprocable therein for alternately increasing and decreasing compression within said cylinder, the crankshaft being coupled to a drive mechanism provided within a drive housing therefor, said mechanism comprising a first gear member carried by a drive shaft and a second gear member carried by the crankshaft, at least one said member meshing with an intermediate gear member provided within said drive housing and rotatable with said

meshing gear, and locking means in said drive housing operable to lock the intermediate gear member against such rotation to enable rotation of the drive shaft to be translated thereby into rotation of the crankshaft.

Compl. Specn. 12 pages.

Drgs. 3 sheets.

CLASS : 65 B 3.

160532.

Int. Cl. : H01 f 15/10.

TAP SELECTOR FOR A TAPPED TRANSFORMER.

Applicant : MASCHINENFABRIK REINHAUSEN GEBRUDER SCHEUBECK GMBH & CO KG OF FALKENSTEINSTRASSE 8, 8400 REGENSBURG, FEDERAL REPUBLIC OF GERMANY, A KOMMANDITGESELLSCHAFT ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventors : DOHNAL DIETER & KLOTH GUNTER.

Application for Patent No. 702/Del/83 filed on 13th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A tap selector for a tapped transformer, comprising an inner contact ring, a plurality of spaced apart stationary outer tap contacts which are arranged in a circle around the ring and which each comprise a rod of substantially round cross-section extending towards the ring, and two generally parallel elongate contact bridge elements which are movable around the circle for selective electrical connection of the tap contacts with the ring and which are resiliently urged towards each other and extend generally radially between the ring and the circle so that their radially inner end portions constantly embrace the ring and their radially outer end portions embrace each of the tap contacts when electrically connected to the ring, each of the bridge elements being firstly provided at its radially inner end portion with a first pair of contact protrusions arranged to bear on the ring at two locations spaced apart around the cross-sectional circumference of the ring, being secondly provided at its radially outer end portion with a second pair of contact protrusions arranged to bear on the circumference of each tap contact at two separate locations and additionally with a cam surface to guide each tap contact between the radially outer end portions of the bridge elements, and being thirdly provided between its end portions with a bearing surface of convex cross-section which bears against the bearing surface of the respective other bridge element when the elements are not electrically connecting any of the tap contacts with the ring and which rolls on that bearing surface during said guidance of each tap contact.

Compl. Specn. 8 pages.

Drgs. 2 sheets.

CLASS : 70 A.

160533.

Int. Cl. : B01h 3/00.

ELECTROCHEMICAL CELL.

Applicant : DURACELL INTERNATIONAL INC., OF BERKSHIRE INDUSTRIAL PARK, BETHEL, CONNECTICUT 06801, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, U.S.A.

Inventors : ARABINDA NARAYAN DEY & NOBLE EDMUND HAMILTON.

Application for Patent No. 706/Del/83 filed on 20th October, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

20 Claims

An electrochemical cell comprising a metal cell container having an anode, cathode and electrolyte disposed therein, said metal cell container having an open end with the walls adjacent to said open end being tapered, characterised in that said cell is sealed with a metal cell top having a complementary substantially cofitting taper seated with an interference fit on said tapered container wall, said container being an electrical terminal for one of said anode or cathode and said cell top being the electrical terminal for the other of said anode and cathode and an insulating sealant film of between 0.3 and 5 mills thickness is compressively held between said tapered container wall and said cofitting tapered cell top by said interference fit.

Compl. Specn. 15 pages.

Drgs. 1 sheet.

CLASS : 132 (C + D).

160534.

Int. Cl. : B01 f 3/00.

APPARATUS FOR AGITATING AND PUMPING PARTICULATE SOLIDS CONTAINING LIQUIDS.

Applicant : R. GOODWIN INTERNATIONAL LIMITED, A BRITISH COMPANY, OF GOODWIN HOUSE, HANLEY, STOKE-ON-TRENT, ST1 3NR, ENGLAND.

Inventor : GOODWIN JOHN.

Application for Patent No. 719/Del/83 filed on 27th October, 1986.

Convention date 28th October, 1982/8230887/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

Apparatus for agitating and pumping particulate solids containing liquids comprising a vaned agitator coupled to a conventional pump by a shaft wherein the vanes of the agitator being at an angle of up to 30° to the axis of the agitator, the direction of inclination being such that the end of the vane furthest from the pump inlet is ahead of the end of the vane nearest the pump inlet in the direction of rotation of the agitator such that pressure waves are set up in the liquid and the solids, and the solids are loosened so that the liquid is pumpable with the solids.

Compl. Specn. 13 pages.

Drgs. 3 sheets.

CLASS : 130 I.

160535.

Int. Cl. : C 22 B—3/00.

A PROCESS FOR EXTRACTION OF COPPER, NICKEL AND COBALT METAL VALUES FROM MANGANESE SAND NODULES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : SARAT CHANDRA DAS, SHASHI ANAND, RADHANATH PRASAD DAS, PRAFULLA KUMAR JENA.

Application for Patent No. 793/DEL/1983 filed on 29th November, 1983.

Complete Specification left on 10th December, 1984

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A process for the extraction of copper, nickel and cobalt metal values from manganese sea nodules comprising grinding and sieving the manganese sea nodules, leaching the said material with dilute sulphuric acid in the presence of carbon in the form of charcoal/activated carbon, as solid reductant and separating the leached product by filtration and subjecting it to known methods of isolation of the metal values.

Prov. Specn. 5 pages.

Compl. Specn. 8 pages.

CLASS : 1301.

160536.

Int. Cl. : C22b—3/00.

A PROCESS FOR THE EXTRACTION OF COPPER, NICKEL, COBALT METAL VALUES FROM SEA BED MANGANESE NODULES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110 001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : RADHANATH PRASAD DAS, SARAT CHANDRA DAS, SHASHI ANAND, PRAFULLA KUMAR JENA.

Application for Patent No. 795/DEL/1983 filed on 29th November, 1983.

Complete specification left on 10th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

10 Claims

A process for the extraction of copper, nickel and cobalt metal values from manganese sea nodules comprising grinding and sieving the nodules, leaching the said sieved nodules characterised in that the leaching is done using glucose as a reductant in ammoniacal medium.

Compl Specn. 9 pages.

Prov. Specn. 5 pages.

CLASS ; 157D₀₁C.

160537.

Int. Cl. : E01b—3/00.

RAIL TRACK WHOSE WIDTH IS ADJUSTABLE BY A PREDETERMINED GAUGE.

Applicant : HOESCH WERKE AKTIENGESellschaft, OF EBERHARDSTRASSE 12, 4600 DORTMUND 1, WEST GERMANY, A WEST GERMAN COMPANY,

Inventor : ING. PETER PFEIFFER.

Application for Patent No. 802/DEL/1983 filed on 30th November, 1983.

Convention Application No. 8330931 dated 19th November, 1983 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

Rail track whose width is adjustable by a predetermined gauge, said rail track having a base plate with support ribs and fastening bores for sleepers screws thereon on either side of a rail foot supported on said base plate, characterised

in that on one side of said rail foot said fastening bores are spaced from said support ribs at a distance different from the distance of said fastening bores from said support rib on the other side of said rail foot, said difference in said distance of said fastening bores and said support rib, constituting the predetermined gauge to the extent of which said rail foot is adjusted laterally by turning said base plate around.

Compl. Specn. 7 pages.

Drgs. 2 sheets.

CLASS : 206C.

160538

Int. Cl. : G01s—9/02, 9/00.

TRAJECTORY ACQUISITION AND MONITORING SYSTEM.

Applicant : MESSERSCHMITT-BOLKOW-BLOHM GMBH, OF HUNEFELDSTRASSE 1-5, D-2800 BREMEN 1, WEST GERMANY, A COMPANY ORGANISED UNDER THE LAWS OF FEDERAL REPUBLIC OF GERMANY.

Inventors : HANS-JOACHIM BOECK, JURGEN FRYEN AND ULRICH MEYER.

Application for Patent No. 803/DEL/1983 filed on 30th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A trajectory acquisition and monitoring system for acquiring and evaluating data indicative of the trajectory of mobile objects which comprises a plurality of autonomous, spatially separated mobile track control stations, a control centre for real time operation and coordination and triangulation on the basis of acquired position and tracking data and an information linking and distribution system connecting said plurality of track control stations to said control centre for bi-directional data communication, each of said track control stations comprising an instrument carrier automatically adjustable for elevation and azimuthal orientation and carrying at least one optical electronic sensor capable of operating in different ranges of the electromagnetic spectrum and a control unit connected to said instrument carrier, said control unit incorporating a monitor adapted for the optical acquisition of information provided by said sensor in real time synchronisation with said control centre.

Comp. Specn. 20 pages.

Drg. 3 sheets.

CLASS : 27 A.

160539

Int. Cl. : E 01 d 19/02.

A BRIDGE COMPRISING A DECK AND A STABILIZED EARTH ABUTMENT AND A METHOD OF MANUFACTURE THEREOF.

Applicant : HENRI VIDAL, A FRENCH CITIZEN, OF 8 BIS, BOULEVARD MAILLOT, NEUILLY-SUR-SEINE, FRANCE.

Inventor : VIDAL HENRI.

Application for Patent No. 824/Del/83 filed on 6th December, 1983.

Convention date on 6-12-1982/8234688/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

6 Claims

A bridge comprising a deck and a stabilised earth abutment characterised in that said stabilised earth abutment comprises a compacted earth mass containing reinforcing members

therein to stabilise the mass by frictional forces mobilised therein, there being provided in contact with said mass and close to a substantially vertical surface thereof, vertical pillars which bear the vertical load of the deck of the bridge while substantially all horizontal forces are absorbed by the stabilised earth mass, there being an earth retaining facing on at least the said vertical surface comprising facing elements attached to the end of said reinforcing members, at least some of which facing elements are integral with said vertical pillars.

Compl. Specn. 14 pages.

Drg. 4 sheets.

CLASS : 129 F.

160540

Int. Cl. : B 23 p 15/34.

"A MILLING CUTTER".

Applicant : KENAMETAL INC., A CORPORATION OF THE COMMONWEALTH OF PENNSYLVANIA, OF P.O. BOX 231, SATORE, PENNSYLVANIA, 15650, U.S.A.

Inventors : JAMES ANTHONY OSHNOCK & ROBERT ALFRED FRICKSON.

Application for Patent No. 850/Del/83 filed on 21st December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A milling cutter comprising : a cutter body rotatable about its central axis; a peripheral wall on said cutter body; at least one insert pocket and clamp recess located in said peripheral wall, said insert pocket being provided with insert locating surfaces; a cutting tooth insert positioned within said pocket, and clamp means provided within said clamp recess for releasably clamping said insert within said pocket, said clamp means having a first planar surface for abutting engagement with said insert; and movement means provided on said clamp means for moving said clamp means and thereby either advancing or retracting said first planar surface into engagement with or out of engagement from said insert.

Compl. Specn. 18 pages.

Drg. 6 sheets.

CLASS : 39 N.

160541

Int. Cl. : C01 d 3/00.

"AN IMPROVED PROCESS FOR THE PRODUCTION OF CARNALLITE FROM SEA OR SUB-SOIL BITTERNS CONTAINING SULPHATE IONS BY SOLAR EVAPORATION".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : GOPAL DATTATRAYA BHAT, MANVANTRAI REVASHANKER OZA, JITENDRA RAMANIL SANGHAVI & KONERU SOMASUNDRA RAO.

Application for Patent No. 852/Del/83 filed on 22nd December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005, 110005.

4 Claims

An improved process for the production of carnallite from sea or sub-soil bitterns containing sulphate ions by solar evaporation comprising evaporating $29^\circ\text{Be}'$ which is the

mother liquor or salt manufacture to produce $38^\circ/38.5^\circ\text{Be}'$ bittern admixing sea or sub soil bitterns of $29^\circ\text{Be}'$ with the $38^\circ/38.5^\circ\text{Be}'$ bittern admixing sea or sub soil bitterns of $29^\circ-31^\circ\text{Be}'$ with a $38^\circ-39^\circ\text{Be}'$ bittern thus produced in a ratio 1 : 5 by volume allowing the mixture to remain as such for 12 to 24 hours for solar evaporation to separate sodium chloride, decanting the mixed bittern to a crystalliser to separate carnallite by solar evaporation.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 32 F₂b.

160542

Int. Class : C07d-33/34.

"PROCESS FOR THE PREPARATION OF THIADIAZOLOTETRAHYDROISOQUINOLINE ISOMERS".

Applicant : SMITHKLINE BECKMAN CORPORATION, FORMERLY KNOWN AS SMITHKLINE CORPORATION, OF 1500 SPRING GARDEN STREET, PHILADELPHIA, PENNSYLVANIA 19101, UNITED STATES OF AMERICA; A CORPORATION ORGANISED UNDER THE LAWS OF THE COMMONWEALTH OF PENNSYLVANIA, ONE OF THE UNITED STATES OF AMERICA.

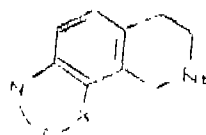
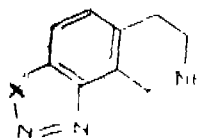
Inventors : WILLIAM EDWARD BONDINELL & GERALD ROBERT GIRARD.

Application for Patent No. 485/Del/1980 filed on 26th June, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A process for the preparation of thiadiazolotetrahydroisoquinoline isomers having the Formula I or Formula II



Formula II

or a pharmaceutically acceptable acid addition salt thereof, in which X is sulfur which comprises, cyclizing in any known manner 2-acetyl-8-(7)-amino-7(8)-R-thio-1, 2, 3, 4-tetrahydroisoquinoline wherein R is a displaceable group, by diazotizing and hydrolyzing in any known manner the acetyl group and optionally reacting the product with an organic or inorganic acid to form the nontoxic pharmaceutically acceptable acid addition salts.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 68 E₁ and 160 C.

160543

Int. Cl. : G 05f 3/00.

"A VEHICLE HEAD LAMP CIRCUIT".

Applicant : ISAAC NEWTON AND GEORGE STEPHEN, BOTH INDIAN NATIONALS OF 15, DDA MARKET, ZAMROODPUR COMPLEX, KAILASH, COLONY, EXTENSION, NEW DELHI-110048.

Inventors : ISSAC NEWTON AND GEORGE STEPHEN.

Application for Patent No. 13/DEL/83 filed on 11th January, 1983.

Complete specification left on 4th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims

A vehicle head lamp circuit comprising a magneto one terminal of which is earthed while the other terminal is connected to a limb of a parallel circuit having a switch and a capacitor in series, the other end of this limb being connected to a vehicle lamp, a zener diode connected in series to a diode which in turn is earthed, the zener diode and the diode being connected in the limb between the capacitor and the lamp so as to be in parallel to said magneto.

Compl. Specn. 10 pages.

Drg. 1 sheet.

Provn. Specn. 6 pages.

CLASS : 151 G.

160544

Int. Cl. : F16I 17/02.

"A SEALING RING FOR JOINT BETWEEN TWO FLUID CONVEYING PIPES".

Applicant & Inventor : MICHAEL JOHN POOK, a British Citizen of C-4 Commercial Centres, Safdarjung Development Area, New Delhi-110016, INDIA.

Application for Patent No. 714/Del/83 filed on 26th October, 1983.

Complete specification left on 25th October, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

An annular sealing ring for use in a joint between two fluid conveying pipes, made of any known resilient material and comprising a first arm and a second arm spaced from each other and having a connecting web on at end thereof joining the said arms, at least one of the arms having a plurality of spaced sealing surfaces in the form of teeth, serrations or grooves provided on the outer side thereof, the zone between two adjacent sealing surfaces being a captive or collection zone, capable of accommodating therein particles of dirt or other foreign particles, as described in the complete specification of patent application No. 249/Del/80 characterised in that spaced additional sealing surfaces in the form of teeth, serrations or grooves are provided on the inner surface of at least one of the said two arms, the cavities between each pair of adjacent additional sealing surfaces being captive or collection zone for accommodating dirt or other foreign particles.

Privn. Specn. 4 pages.

Compl. Specn 8 pages.

Drg. 1 sheet.

CLASS : 127 I & 206 E.

160545

Int. Cl. : G01m-1/10 & G01c-19/00.

"A STRAPPED-DOWN INERTIAL SYSTEM FOR A VEHICLE".

Applicant : MARCONI AVIONICS LIMITED, a British Company, of Airport Works, Rochester, Kent, England.

Inventors : YASHWANT KHODABHAI AMPEN & RODNEY PEARSON.

Application for Patent No. 725/Del/1983 filed on 31st October, 1983.

Convention date 15-11-1982/8232568/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A strapped-down inertial system for a vehicle including computational means and a sensor package characterised in that it comprises : a first part adapted to be fixedly mounted on said vehicle, and a second part which is rotatable about a first axis defined in said first part, and second part defining second and third mutually orthogonal axes, and fixedly mounted on said second part gyroscopic means responsive to rotation about first and second directions one of which is coincident with the said first axis, said gyroscopic means having an output connected to said computational means and accelerometer means responsive to acceleration along third and fourth directions at least one of which is not parallel to either of said first and second directions said accelerometer means having an output connected to said computational means the computational means including means for calculating the heading of said first part, and hence the vehicle, from said outputs of said gyroscopic means and accelerometer means taken with the first part stationary and the second part successively in at least three different angular

positions about said first axis.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 208.

160546

Int. Cl. : B42k 7/00, 5/16 & 24/10.

"WRITING INSTRUMENT".

Applicant : THE PARKER PEN COMPANY, a Delaware Corporation, on One Parker Place, Janesville, Wisconsin 53545, United States America.

Inventor : MARTIN EDWARD WACHA AND JERRY WILLIAM DIGNY.

Application for Patent No. 754/DEL/1983 filed on 11th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims

A writing instrument comprising a tubular barrel having a writing tip fitted into the front end in communication with the supply of liquid ink contained within said barrel, said barrel being rectilinear and having a groove in its external surface the groove having a spiral intermediate portion and front and rear end portions respectively lying in spaced apart planes extending perpendicular to the longitudinal axis of said barrel, a tubular shroud positioned over said barrel in coaxial relationship therewith, and a spring finger disposed internally of said tubular shroud intermediate the ends thereof and having a follower extending into said groove, said shroud dimensioned so that said writing tip extends from the front end of said shroud when said follower is in said rear end portion of said groove, and said writing tip is shrouded by said shroud when said follower is in the front end portion of said groove.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 144 E4.

160547

Int. Cl. : C 0 9 D - 3/00.

"A COATING COMPOSITION".

Applicant : BGB-GESELLSCHAFT A PRIVATE WEST GERMAN COMPANY CONSTITUTED BY REINMAR JOHN & RAINER-LED MEYER WEST GERMAN CITIZENS of Rheinstrasse 64, D-7580 Buhl, Federal Republic of Germany.

Inventors : RAINER-LED MEYER, REINMAR JOHN, ROLF NAGEL & GUNTER MULLAR.

Application for Patent No. 767/DEL/1983 filed on 17th November, 1983. Convention application No. 438512, dt. 06-10-1983 (Canada).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

A coating composition which hardens under exposure to moisture for use to produce a protective coating, in particular on concrete, steel concrete and steel parts and roofs of buildings, such as tar board covered flat roofs, which composition comprises 15 to 70% by weight polyurethane-forming isocyanate of the kind herein described 5 to 25% by weight light, liquid, OH-groups containing, low molecular, aromatic hydrocarbon resin of the kind herein described, 0.2 to 2% by weight anti-settling agent of the kind herein described, 10 to 35% by weight flake-shaped extender of the kind herein described, 2 to 25% by weight colouring pigment of the kind herein described, 1 to 5% by weight moisture-absorbing agent of the kind herein described, and at least 5% by weight resin solvent of the kind herein described.

Compl. Specn. 18 pages.

CLASS : 35F & 40F.

160548

Int. Cl. : C04b-7/00.

"PROCESS FOR FORMING A POWDER FROM A MOLTEN SLAG AND APPARATUS FOR MANUFACTURING THE SAME".

Applicant : IMPHY S.A., A FRENCH COMPANY, OF 168 RUE DE RIVOLI, 75001 PARIS, FRANCE.

Inventor : BERNARD COURTAULT AND GERARD RAISSON.

Application for Patent No. 798/DEL/1983 filed on 29th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims

A process for forming a powder of the kind such as herein described from a molten slag comprising the steps of :

introducing a stream of said molten slag into a first slag treating zone :

striking said stream of molten slag in said first treating zone with a plurality of jets of pressurized gas under conditions to form fine droplets of slag :

passing the resulting fine droplets of slag into a second treating zone :

contacting the droplets of slag in said second treating zone with a quenching fluid : and

collecting the resulting particulates of slag.

(Complete specification 18 pages. Drawing 2 sheets)
3—157 GI/87

CLASS : 148 H, 206 E.

160549

Int. Cl. : H 05 k.

"A LAMINATOR FOR APPLYING PHOTORESIST DRY FILM TO THE OPPOSITE FACES OF PANELS".

Applicant : DYNACHEM CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF STATE OF DELAWARE, U.S.A., OF 2631 MICHELIE DRIVE, JUSTIN, CALIFORNIA 92680, U.S.A.

Inventor : JOHN LEEDY GARBBER.

Application for Patent No. 825/DEL/83 filed on 6th December, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

20 Claims

A laminator for applying photoresist dry film to the opposite faces of panels comprising.

supporting frame means providing a laminating station and a nip located in said station to successively receive downwardly moving panels,

means for releasably suspending each of successive predetermined lengths of photoresist dry film in said laminating station above said nip with said nip substantially midway the length of each of said lengths of film,

means for providing a supporting surface for holding a stack of panels in an upright position, said supporting surface being slanted slightly from the vertical direction so that the panels are stably supported and tend to stay in place,

pick-up means for picking up and holding successive ones of the panels in upright position in line with said nip as each of the successive lengths of film are suspended above said nip, and

means connected to said pick-up means for moving each of the successive panels down into engagement with the film and into said nip.

means for suspending each of the successive lengths of film at a slight angle from the horizontal direction which slight angle corresponds to the angle of slant of said supporting surface for the panels from the vertical direction whereby the angle between each panel and the associated length of film as the panel in an upright position engages the associated length of film during its movement downwardly is substantially 90°.

(Complete specification 54 pages Drawings 23 sheets)

CLASS :

160550

Int. Cl. : H 01M—3/00.

"TIME DIVISION DIGITAL EXCHANGE".

Applicant : COMPAGNIE INDUSTRIELLE DES TELECOMMUNICATIONS CITAI CATEL, OF 12, RUE DE LA BAUME 75008 PARIS, FRANCE, A FRENCH BODY CORPORATE.

Inventors : JEAN-PAUL FAVREL
JEAN OUSS
JEAN-MARC POCHEAU

Application for Patent No. 828/DEL/1983 filed on 07th December 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

8 Claims

A time division digital exchange for switching at least some telephone channels including channels switched on a demand basis and tie-line channels connected on a semipermanent basis the exchange having microprocessor control units and microprocessor terminal units connected by means of two-way multiplex lines to a switching network of said exchange enabling said terminal units to be controlled by said control units, and to communicate with one another, said terminal units including individual digital circuit terminal units for PCM junctions characterised in that said exchange comprises channel processing means having at least a mixer and separator terminal unit connected by means of said two-way multiplex lines to said switching network for tie-line channels signalling, and, in each said digital circuit terminal unit, linked by a time-switch to two bundles of said two-way multiplex lines, at least :

—a digital transcoding and frame realigning terminal connected to the specific PCM junction of said digital circuit terminal unit and by means of said multiplex lines to said time-switch for the alignment and the transcoding of multiframe coming and outgoing through said specific PCM junction;

—a channel by channel signalling receiver connected to said time switch by means of two said multiplex lines for receiving channel by channel signalling from said digital transcoding and frame realigning terminal of said digital circuit terminal unit on one of said two multiplex lines and for forwarding to said mixer and separator unit the received tie-line channels signalling on the other of said two multiplex lines;

—a signalling and alignment circuit connected to said time-switch by means of two said multiplex lines firstly for monitoring in parallel the alignment of multiframe coming from said specific PCM junction and from the mixer and separator terminal unit, and secondly for forwarding outgoing tie-line channels signalling to said PCM junction.

(Complete specification 48 pages, Drawings 10 sheets)

CLASS : 32F₆(b), 160551

Int. Cl. : C07C 57/14.

"PROCESS FOR THE PRODUCTION OF MALEIC ANHYDRIDE BY OXIDATION OF HYDROCARBONS".

Applicant : THE STANDARD OIL COMPANY, AN OHIO CORPORATION, HAVING A PLACE OF BUSINESS AT PATENT & LICENSE DIVISION, MIDLAND BUILDING, CLEVELAND, OHIO 44115, UNITED STATES OF AMERICA.

Inventors : ERNEST CARL MILBERGER, NEOL JFROME BREMER & DENNIS EDWARD DRIA.

Application for patent No. 858/Del/83 filed on 23rd December 1983.

Divisional to patent application No. 51/Del/81 filed on 28th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi 110005.

5 Claims

A process for the production of maleic anhydride by the oxidation of n-butane, n-butene, 1, 3-butadiene or a mixture thereof with molecular oxygen or an oxygen-containing gas in the vapor phase at a reaction temperature of 450°C to 600°C in the presence of a catalyst comprising the mixed oxides of vanadium and phosphorus, said catalyst characterised by an average valence state of vanadium from 3.9 to 4.6 and phosphorus to vanadium ratio of 1 : 1 to 1 : 2, wherein the macrostructure of the catalyst predominantly comprises generally spherical particles consisting of stacks or integrally associated sheets of catalytic material.

Complete specification 23 pages, Drawing 8 sheets)

CLASS : 35 B.

160552

Int. Cl. : C 04 b 7/02.

"A PROCESS FOR THE PREPARATION OF OIL WELL OR CLASS CEMENT".

Applicant : OIL & NATURAL GAS COMMISSION, 71H FLOOR, BANK OF BARODA BUILDING, PARLIAMENT STREET, NEW DELHI-110001, INDIA, A GOVERNMENT OF INDIA UNDERTAKING.

Application for Patent No. 21/Del/84 filed on 5th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A process for the preparation of an oil well cement which comprises in preparing a mix having the following composition :—

calcium oxide	—	64.5	to	67%
silica	—	20	to	23%
alumina	—	4	to	5%
and magnesium oxide	—	less than		2%

pelletizing said mix into pellets firing the pellets at a temperature of 1450 to 1600°C to form a clinker, cooling said clinker and, finally, subjecting said clinker with gypsum added thereto to the step of grinding.

(Complete specification 7 pages).

CLASS : 151 E & 129 A.

160553

Int. Cl. : F 16 1 55/00 & B 21 d 9/00.

"A RESILIENT INTERNAL MANDREL FOR USE WITH A PIPE BENDER".

Applicant : CRC PIPELINE INTERNATIONAL, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF TEXAS OF 3200 FIRST CITY BANK TOWER, 201 MAIN STREET, FORT WORTH, TEXAS 76102, U.S.A.

Inventor : LIONEL HARRIS WHEELER, ROBERT GERALD GOEKLER & DANIEL GUY LUDDEKE.

Application for Patent No. 22/Del/84 filed on 5th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

14 Claims

A resilient internal mandrel for use with a pipe bender to bend a pipe, comprising :

a first end assembly for positioning within the pipe to be bent;

a deformable resilient member such as herein described having a first face and a second face secured on one side of the first end assembly with the first face abutting the first end assembly;

deformation means having a first portion and a second portion, said second portion abutting the second face of the deformable resilient material, said deformation means moving said second portion relative to said first portion; and

connector means forming a connector that is rigid in extension in a direction parallel to the length of the pipe said rigid connector extending between the first end assembly and the first portion of the deformation means for supporting the first

end assembly and deformation means so that when the second portion moves relative to the first portion towards the second face of the deformable resilient member the deformable resilient member is deformed between the second portion of the deformation means and the first end assembly to expand the deformable resilient member to support the internal walls of the pipe proximate the bend said deformable resilient member resiliently returns to its relaxed shape after compression when the second portion of said deformation means moves relative to the first portion away from the second face of the deformable resilient member for movement of the mandrel within the pipe.

(Complete specification 19 pages. Drawing 4 sheets)

CLASS : 119 AF. 160554

Int. Cl. : D 03 D — 49/26, 49/38.

A PICKING STICK MECHANISM FOR LOOMS.

Applicant : SAURABH NATVERLAL KINARIWALA, OF 1-4, LAJPAT NAGAR III, NEW DELHI-110 024, INDIA, AN INDIAN NATIONAL.

Inventor : SAURABH NATVERLAL KINARIWALA.

Application for Patent No. 054/DEL/1984 filed on the 19th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A picking stick mechanism comprising a picking stick having a picker at the upper end, a long lug strap held to said picking stick, a short lug strap held to said long lug strap through a sweep stick, a fulcrumed lever adapted to receive a movement from a cam for causing an actuation of said long lug strap, a holding device provided at the lower end of said picking stick characterized in that said holding device comprises at least two pivotal link arms to form a closed sided member, a first end of said link arms pivotally held to said picking stick, the opposite end of said link arms pivotally held to a rocker shaft.

(Complete specification 08 pages).

CLASS : 70 C. 160555

Int. Cl. : C23b 5/00.

"A METHOD FOR METALLIZING A NON METALLIC SURFACE BY ELECTROPLATING".

Applicant : KOLLMORGEN TECHNOLOGIES CORPORATION, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF TEXAS, HAVING A PLACE OF BUSINESS AT 717 NORTH HARWOOD STREET, SUITE 1000, LOCK BOX 67, DALLAS, TEXAS 75201, U.S.A.

Inventors : DENIS MICHAEL MORRISSEY, PETER EDWARD TAKACH & RUDOLPH JOHN ZEBLISKY.

Application for Patent No. 68/Del/84 filed on 24th January, 1984.

Application for Patent No. 68/Del/84 filed on 24th January, 1984. Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

29 Claims

A method for metallizing a non metallic surface by electroplating in a vessel provided with a counter-electrode and containing an electroplating bath solution comprising in ionic form a metal (B) to be electroplated said surface being provided with metallic sites and a connector area, said connector area being located outside of the non metallic surface area to be electroplated, characterized by the steps comprising (a) forming a plurality of metallic sites on said

surface, said sites comprising or consisting of a metal (A), said metal (A) being different from said metal (B) to be deposited on said surface by electroplating, and (b) exposing said surface including at least a portion of said connector area to the electroplating bath solution, said solution having a defined conductivity which is a function of the concentration of the current carrying species, and further comprising one or more additional component(s) (C) which cause preferential deposition of metal (B) on said metallic sites comprising or consisting of metal (A), compared to the deposition on surfaces consisting of, or formed by, the species of the electrodeposited metal (B), and (C) applying a potential to the connector area and the counter electrode which is sufficient to initiate and cause preferential deposition of metal(s) on said sites comprising or consisting of metal (A) for a time sufficient for forming a substantially uniform deposit of desired thickness.

Compl. Specn 42 pages.

Drg. 4 sheets.

CLASS : 127 C. 160556

Int. Cl. : F 16 g—1/08, 1/28.

"POSITIVE DRIVE POWER TRANSMISSION BELT".

Applicant : UNIROYAL, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW JERSEY, ONE OF THE UNITED STATES OF AMERICA, HAVING AN OFFICE AT 1230 AVENUE OF THE AMERICAS, NEW YORK, NEW YORK 10020, U.S.A.

Inventor : WILLIAM ALBERT SKURA.

Application for Patent No. 152/Del/84 filed on 21st February, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

9 Claims

An improved positive drive power transmission belt having an elastomeric body portion, a tensile band embedded in the body portion, a plurality of teeth of elastomeric material integral with the body portion and each possessing a predetermined spring rate, said teeth being positioned along a peripheral surface of the belt with a fabric cover over the teeth and over the land portions between the teeth, characterised in said fabric comprising warp and weft yarns treated by a heat set thermosetting resin such as herein described so as to lock together the warp and weft yarns at the intersections thereof, as well as the individual filaments within the warp and weft yarns and at least partially obstructing the interstices of said fabric whereby said interstices are substantially free of said elastomeric material, said fabric cover cooperating with said teeth such that the spring rate of each fabric covered tooth is greater than 1.2 times and less than 3 times the spring rate of said tooth alone.

Compl. Specn, 20 pages.

Drg. 2 sheets.

CLASS : 156 H. 160557

Int. Cl. : F 01 I—3/02.

"IMPROVED METAL POPPET-TYPE VALVE MEMBER".

Applicant : USS ENGINEERS AND CONSULTANTS, INC., A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, DOING BUSINESS AT 600 GRANT STREET, PITTSBURGH, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventor : FLETCHER HORTON REDWINF.

Application for Patent No. 222/Del/84 filed on 09th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

An improved metal poppet-type valve member having a replaceable insert of deformable material installed in a groove in said member, said insert having a tapered annular seating surface for sealing contact with a seating surface of a valve seat member, characterised in that said first-mentioned valve member comprises a deformable back-up member bonded to a transverse metal surface of said first-mentioned valve member, said back-up member abutting at least a major portion of a transverse surface of said replaceable insert opposite said tapered seating surface thereof, the extent of said abutting of the transverse surface of the replaceable insert by said back-up member being defined by boundaries located in a direction parallel to the axis of the first-mentioned valve member from opposite outermost ends of the tapered seating surface of the insert, said groove in said first-mentioned valve member being an arc of a circle and a further groove of said back-up member, which abuts said major portion of said transverse surface of said insert also being an arc of a circle so that said groove and said further groove being adjacent each other together form a continuous arc of the same radius.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 63 B.

160558

Int. Cl. : H02k 3/00, 3/12, 3/32 & 3/36.

"A MACHINE AND METHOD FOR FORMING AND INSTALLING FIELD WINDINGS IN THE CORES OF AXIAL FLUX INDUCTION ELECTRIC MACHINES".

Applicant : CARD-O-MATIC PTY. LIMITED, A COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF NEW SOUTH WALES, OF C/P. BOX & LEMBERG, 27 REIBY PLACE, SYDNEY, NEW SOUTH WALES 2000, AUSTRALIA.

Inventor : LOUIS STANLEY.

Application for Patent No. 224/Del/84 filed on 12th March, 1984.

Convention date 31st March, 1983/PF8708/(Australia).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

23 Claims

A machine to form and install field windings in a core of an axial flux induction electric machine, said core having a radial face with a plurality of radially extending slots which receive field windings, said machine comprising: a core support to receive said core and support same with said face exposed; a field winding former having a longitudinal axis and a peripheral surface about which wire is wound to form a plurality of wire convolutions which on said core form a field winding, said former having a terminal end from which said field windings are delivered into said slots; and wherein said peripheral surface has a configuration complementary to the configuration of said slots so that convolutions of said wire on said former have a configuration enabling location of the convolutions in said slots so as to extend there along to form the field windings on the core; and said machine further includes press means moveable along said peripheral surface in a direction generally parallel to said axis to move said convolutions from said former into said slots.

Compl. Specn. 25 pages.

Drg. 13 sheets.

CLASS : 146 DI & 153.

160559

Int. Cl. : B24b—37/00.

"APPARATUS FOR LAPPING A GEM TO FORM SPHERICAL FACETS THEREON".

Applicant : GIOVANNI COLLIVA, AN ITALIAN CITIZEN, OF ALAMEDA JAV-AP. 81—C.E.P. 01420 SAO PAULO, BRAZIL.

Inventors : GIOVANNI COLLIVA.

Application for Patent No. 255/Del/84 filed on the 22nd March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

Apparatus for lapping a gem, to form spherical facets thereon which apparatus comprises a rotatable abrasive lapping tool having a part-spherical working surface means for holding a gem in contact with said part-spherical working surface of said lapping tool, a fixed support member having a part-spherical support surface for supporting said gem holding means, the radii of said part-spherical working surface of said lapping tool and of said part-spherical support surface of said support member being substantially equal, and guide means connected to said gem holding means and being movable over and in contact with said support surface for directing said gem holding means over the part-spherical surface of said lapping tool whereby the surface of any spherical facet imparted to said gem through abrasion thereof with said working surface will always have a centre of curvature in common with that of said working surface.

Compl. Specn. 14 pages.

Drg. 4 sheets.

CLASS : 116 C.

160560

Int. Cl. : B65g -41/00.

"A GRATE PLATE FOR USE IN RECIPROCATING GRATE TYPE MATERIAL TRANSPORT APPARATUS".

Applicant : FULLER COMPANY, OF 2040 AVENUE "C", P.O. BOX 2040, BETHLEHEM, PENNSYLVANIA 18001, U.S.A., A CORPORATION ORGANISED UNDER THE LAWS OF STATE OF DELAWARE, U.S.A.

Inventor : DAVID RICHARD NOWTON ORREN.

Application for Patent No. 276/Del/1984 filed on 28th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A grate plate for use in a reciprocating grate type material transport apparatus comprising a generally rectangular shaped plate having an upper surface for supporting material to be transported, a usher surface on the front and of the grate plate and a lower surface, a transverse rib on the lower surface, said transverse rib having a centrally positioned downwardly projecting tab having an opening there-through parallel to the length of the grate plate, a lateral wing on each side of the grate plate, each wing having a detent at the rear end of the grate plate and a protrusion along the length of the wing to permit the grate plate to be supported at four spaced apart points.

Compl. Specn. 10 pages.

Drg. 1 sheet.

CLASS : 155B

Int. Cl. : B29, 9/08, B32, 23/00, 33/00.

"A PVC-IMPREGNATED TEXTILE FABRIC".

Applicant : TBA INDUSTRIAL PRODUCTS LIMITED, A COMPANY ORGANISED UNDER THE LAWS OF GREAT BRITAIN, OF 20 ST MARY'S PARSONAGE, MANCHESTER M3 2NL, ENGLAND.

Inventor : RICHARD GUY FORD.

Application for Patent No. 305/Del/84 filed on 9th April, 1984.

Convention dated on 27th April, 1983, No 8311408 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

A pvc-impregnated textile fabric coated with a normally pvc-incompatible synthetic rubber facing layer means of a nitrile rubber interlayer, characterised in that the synthetic rubber includes a proportion of a distintegrating agent such as herein described which is compatible with the synthetic rubber but which on exposure to heat above 100°C causes breakdown of the rubber matrix.

Compl. Specn. 6 pages.

CLASS : 33F & H.

160562

Int. Cl. : B22d - 15/02.

"AN IMPROVED METHOD FOR MANUFACTURING BY SQUEEZE FORMING A METAL ARTICLE WHICH DOES NOT REQUIRE EXTENSIVE SUBSEQUENT MACHINE".

Applicant : GKN TECHNOLOGY LIMITED, A BRITISH COMPANY, OF GROUP TECHNOLOGY CENTRE, BIRMINGHAM NEW ROAD, WOLVERHAMPTON, WEST MIDLANDS, WV4 6BW, ENGLAND.

Inventor : JOHN BARLOW.

Application for Patent No. 328/Del/84 filed on 16th April, 1984.

Convention dates 26th April, 1983/83 11262 & 26th April, 1983/8311264/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

An improved method for manufacturing by squeeze forming a metal article which does not require extensive subsequent machining wherein molten metal is introduced into the mould part of a squeeze forming press, the mould is closed under pressure to displace molten metal to fill a cavity in the mould and the metal is maintained under pressure whilst solidification thereof takes place, the mould is subsequently opened and the formed article is removed characterised in that prior to the introduction of molten metal thereto a compacted soluble salt core comprised of a salt such as herein defined having a shape necessary for imparting the required shape to the resulting squeeze-formed article is provided within the mould cavity of said mould, said core being compacted to such a density and surface finish that it will retain its integrity under the conditions of sustained temperature and pressure transmitted to it by the metal during the squeeze forming operation, the core being subsequently dissolved from the squeeze-formed article by a solvent such as herein defined.

Compl. Specn. 12 pages.

Drq. 3 sheets.

CLASS : 98 l& 206 E.

160563

Int. Cl. : F 24 j - 3/02 & H 01.1 - 15/00.

APPARATUS AND METHOD OF GROWING HOLLOW TUBULAR BODIES OF CRYSTALLINE MATERIAL.

Applicant : MOBIL SOLAR ENERGY CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE AND HAVING A PRINCIPAL PLACE OF BUSINESS LOCATED AT 16 HICKORY DRIVE, WALTHAM, MASSACHUSETTS 02154, U.S.A.

Inventors : RICHARD WARREN STORMONT, LAWRENCE ERISS.

Application for Patent No. 330/Del/84 filed on the 17th April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

20 Claims

Apparatus for growing a hollow tubular body of crystalline material by growing said body from the end of a die member, whereby said hollow tubular body can cut lengthwise along predetermined lines of said body to provide separate crystalline bodies, said apparatus comprising:

container means for containing melt of said crystalline material; and

die member means supported relative to said container means and including (a) a die and prescribing the closed geometrical cross-sectional shape of said hollow tubular body, (b) means extending into said container means for transporting said melt from said container means to said die end as said body is grown from said die end, and (c) means disposed in said die member means for concentrating stress in said hollow tubular body along said lines as said body is grown from said die end.

A method of growing a hollow tubular body of crystalline material as claimed in claim 1, said method comprising the step of;

growing said tubular body from the die end of a die member by the step of creating stress along predetermined lines in a direction parallel to the direction of growth of said tubular body, said step of creating said stress comprises the step of growing said tubular body so that said tubular body is thinner along each of said predetermined lines; and

cutting said tubular body along said predetermined lines so as to separate said hollow tubular body into plurality of bodies of said crystalline material.

Compl. Specn. 24 pages.

Drq. 2 sheets.

Class : 129AG

160564

Int. Class : B21d 7/00, 7/12, 7/14, 3/00.

"APPARATUS FOR BENDING A RAIL".

Applicant : THE PERMANENT WAY EQUIPMENT COMPANY, a British Company, of Giltway, Giltbrook, Nottingham, NG16 2GQ, England.

Inventors : MICHAEL JOHN HUDSON & JOHN CHARLES SINCLAIR.

Application for patent No. 342/Del/84 filed on 19th April, 1984.

Convention date 23-4-1983/8311095, 8311111/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(8 Claims)

Apparatus for bending a rail forming part of a railway line to predetermined deformation from a datum, said rail being capable of both elastic and plastic deformation, comprising :

- (a) a beam having spaced first and second rail-engaging members and a third rail-engaging member therebetween coupled thereto;
- (b) loading means in force transmitting relation between said beam and at least one of said rail-engaging members for applying a load between said beam and said rail;
- (c) load-measuring means mounted on said beam for generating a signal representing said load applied to said beam and said rail by said loading means;
- (d) displacement-measuring means mounted on said third rail-engaging member and coupled to said first and second rail-engaging members for generating a signal representing said displacement of said rail at said third rail-engaging member relative to the positions of said first and second rail-engaging members and relative to said datum;
- (e) sampling means electrically connected to said load-measuring and displacement-measuring means for periodically sampling said signals generated by said measuring means;
- (f) processing means electrically connected to said sampling means for

- (i) detecting from samples supplied by said sampling means those samples which are obtained below the elastic limit for said rail,
- (ii) deriving therefrom a linear function relating said load to displacement under said elastic deformation,
- (iii) calculating for each subsequent sample using said function a predicated value of the displacement for said measured load; and
- (iv) generating a control signal when the difference between said measured displacement in a subsequent sample and said predicated value for said measured load in said sample is substantially equal to the predetermined deformation, and

(g) control means electrically connected to said processing means responsive to said control signal to terminate the operation of said loading means.

(Complete specification 16 pages Drawing 4 sheets).

Class : 198B.

160565.

Int. Class : B03b-3/00, 3/16, 3/28.

"IMPROVED PERCUSSION JIG FOR SEPARATING MATERIALS."

Applicant : KRUPP POLYSIUS AKTIENGESSELLSCHAFT, of Graf-Gulen-Strasse 17, D-4720 Beckum, West Germany, a West German Company.

Inventors : ARMIN SUPP, HEINZ-DIETER BALDUS, NORBERT SCHRODER, HEINZ RASCH, OTTO HEINEMANN, GUNTER MILEWSKI, MANFRED NEUSSER, HARALD MANTHEY AND HERMANN DORR.

Application for Patent No. 356/Del/1984 filed on 26 Apr. 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(8 Claims)

Improved percussing jig for separating materials, said jig having a settling tub filled with water, a carrier for the material to be separated movable mechanically in the settling tub, said carrier having a separating screen, a hydraulic drive cylinder for the material carrier, characterised by said hydraulic cylinder having its piston rod connected to a central column on said material carrier in the region of centroidal axis of said material carrier, said piston rod being the only suspension means for said material carrier whereby said material carrier is move reciprocatingly in the vertical direction.

(Complete specification 17 pages) (Drawings Eight sheets).

Class : 128G, & 195A

160566.

Int. Class : A61m 25/00.

VENTRICULO A ATRIAL OR VENTRICULO PERITONEAL SHUNT VALVE FOR SHUNTING OF CEREBROSPINAL FLUID.

Applicant : GHANSHYAM DAS AGARWAL, an Indian national of Biryaganj, Shahjahanpur-242 001, U.P., India.

Inventor : GHANSHYAM DAS AGARWAL.

Application for Patent No. 596/Del/84 filed on 23rd July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(4 Claims)

A ventriculo atrial or ventriculo peritoneal shunt valve for shunting of cerebrospinal fluid comprising an elongate housing (2) having an inlet (3) at the lower end and an outlet (4) at the upper end said expressions lower and upper end having a reference to the valve when it is in an upright position, said inlet valve seat (6) and said outlet valve seat having valves disposed within said housing and a single plurality of balls displaceable by said liquid, provided in said housing, the inlet being adapted to be connected to a proxi-

mal catheter inserted in the cranial cavity of a patient and the outlet (4) being adapted to be connected to a distal catheter leading to the heart or peritoneal cavity of the patient.

(Complete specification 15 pages) (Drawing 1 sheet).

Class : 68E₁ & 133B.

160567.

Int. Class : G05f 1/08 & B60r 18/00.

"VOLTAGE CONTROL AND CUT OUT DEVICE FOR THE ELECTRICAL SYSTEM OF AN AUTOMOBILE".

Applicant : MACHAT CHANDRAN, an Indian citizen, of F-135 Main Market, Khanpur, New Delhi-110062, India.

Inventor :—MACHAT CHANDRAN.

Application for patent No. 623/Del/84 filed on 1st August, 1984.

Complete specification left on 1st November, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(3 Claims)

A voltage control and cut-out device for the electrical system of an automobile which comprises voltage sensing means connected to the terminals of the generator or dynamo of said system for sensing the output voltage of said generator, triggering means connected to said sensing means and adapted to be activated on receipt of a signal from said sensing means, a preamplifier circuit connected to said triggering means and adapted to be activated by a signal from said triggering means, voltage control means connected to said preamplifier circuit and adapted on the basis of the strength of a signal received from said preamplifier to control the voltage of the system and thereby the current flowing there through, current limiting means connected between said voltage control means and said voltage sensing means adapted to be activated when the current exceeds a predetermined threshold level whereupon said current limiting means de-energises said voltage control means thereby reducing the current level, a signal generating element connected between the output terminals of said generator and a visual display, said signal generating element being adapted to activate said visual display in the event that the generator voltage falls below a predetermined value and disconnection or cut-out means connected between the terminals of said generator and the system battery to ensure that the system is disconnected and does not suffer any damage when there is no positive differential voltage between said generator and said battery.

(Provisional specification 11 pages).

(Complete specification 14 pages.

Drawing 1 sheet)

Class : 53C & 127 Df

160528.

Int. Class : B62m-11/00, F16h-31/00.

"A MECHANISM FOR CONVERTING RECIPROCATING LINEAR MOTION INTO ANTI-DIRECTIONAL CIRCULAR MOTION AND A CYCLE INCORPORATING THE MECHANISM".

Applicant : AJENDRA KUMAR MITTAL C/o Shri Rama Nand Gupta, 335, Subhash Nagar, Meerut City (U.P.), India, an Indian National.

Inventor : AJENDRA KUMAR MITTAL.

Application for Patent No. 652/Del/1984 filed on 13th August 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(3 Claims)

A mechanism for converting reciprocating linear motion into anti-directional circular motion comprising a driving-shaft 1 on which are mounted in spaced apart relation a driving-wheel 2, a first sprocket-wheel 3 and a first gear 4, means connected to said driving wheel to apply linear force in either direction tangentially on the driving wheel 2; an auxiliary-shaft 5 having mounted on it a second gear 6 and a second sprocket-wheel 7, the said auxiliary shaft 5 being parallel to the said driving-shaft 1 such that the said first gear meshes externally with the said second gear 6 to transfer motion from the driving shaft 1 to the auxiliary-shaft 5, in opposite

direction; a driven-shaft 8 having mounted on it a first free-wheel 9 and a second free-wheel 10 such that both the free-wheels 9 and 10 transmit motion in the same direction to the driven-shaft 9; two endless chains 11 and 12 connecting the said first sprocket-wheel 3 to the said first free-wheel 9 and the said second sprocket wheel 7 to the said second free-wheel 10 respectively, the driving-shaft 1, auxiliary shaft 5 and driven-shaft 8 being mounted on bearing supported on a frame.

(Complete Specification 9 Pages) (Drawing 1 sheet).

Class : 95H.

160569.

Int. Class : B25b 27/00.

"IMPROVED DIE-LESS HYDRAULIC CRIMPING TOOL FOR CRIMPING OF ELECTRIC CABLES AND CONNECTORS".

Applicant : Associated Engineers, of 5A DDA Sheds, Okhla Industrial Area, Phase-II, New Delhi-110020, Union Territory of Delhi, India, a Registered Partnership firm, whose Partners are Samer Singh Puri and Rajiv Puri, Indian nationals of the above address.

Inventor : Samer Singh & Rajiv Puri.

Application for patent No. 743/Del/1984 filed on 24th September, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch New Delhi-110 005.

(3 Claims)

An improved die-less hydraulic crimping tool for crimping of electric cables and connectors consisting of a crimping head comprising of a crimping sub mounted on a hydraulically operated piston and a parabolic shaped steel housing mounted on the frame of the tool.

(Complete specification 5 pages.

Drawing 1 sheet)

Class : 187H & C1.

160570.

Int. Class : H04b 7/20.

"A SPARE SUBSCRIBER TERMINAL APPARATUS IN A DIGITAL CONCENTRATOR".

Applicant : COMPAGNIE INDUSTRIELLE DES TELECOMMUNICATIONS CITALCATEL, of 12, rue de la Baum, 75008 Paris, France a French Body Corporate.

Inventors : YVES OLLIVIER.

Application for patent No. 864/Del/84 filed on 14th November, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(3 claims)

A spare subscriber terminal apparatus in a digital concentrator connected to a line test bus and to a terminal test bus, a concentrator comprising terminal units each of which is constituted by a plurality of terminals, each of which is connected with a terminal relay, one of the terminals and the terminal relay connected therewith in one of the terminal units serving as a spare terminal and as a spare relay respectively, each terminal relay having a first set of contacts for connecting two wires of a subscriber line to the terminal in the rest position of the relay and to the line test bus in the working position of the relay, and a second set of contacts for connecting the terminal to the two wires of the subscriber line in the rest position of the relay and to the terminal test bus in the working position of the relay, each terminal unit including a logic control circuit controlling the terminal relays, the improvement wherein the terminal units of the concentrator are interconnected by a spare bus which is internal to the concentrator, wherein the first set of contacts of the spare relay is directly connected to the spare bus which acts a subscriber line for the said spare relay, wherein each terminal unit further includes an isolating relay having a first set of contacts connected via two line wires to all the terminal relays for connecting the said line wires to the spare bus in the rest position of the isolating relay and to the line test bus in the working position of the isolating relay, and a second set of contacts connected via two junctor wires to

all of the terminal relays for connecting the said junctor wires to the terminal test bus in the working position of the isolating relay and for isolating the said junctor wires from the terminal test bus in the rest position of the isolating relay, wherein the said line wires and the said junctor wires are normally isolated from the subscriber lines and the terminals at the said terminal relays so long as the terminal relays are in the rest position and are connected by the first and second sets of contacts of the terminal relays to the subscriber line wires and to the terminals respectively when the terminal relays are in the working position wherein the isolating relays are normally at rest and one of the terminal relays is in the working position when the terminal associated therewith is faulty, and wherein to test subscriber lines and terminals in a terminal unit, the isolating relay of the said terminal unit is put into the working position, and the terminal relays thereof are successively put into the working position.

(Complete specification 13 pages.

Drawing 3 sheets).

Class : 194C8

160571.

Int. Class : H011-15/02.

"IMPROVED LARGE AREA PHOTOVOLTAIC CELL AND METHOD FOR PRODUCING SAME".

Applicant : ENERGY CONVERSION DEVICES, INC., a Delaware corporation, having a place of business at 1675 West Maple Road, Troy, Michigan 48084, U.S.A.

Inventor : JOSEPH JOHN HANK.

Application for patent No. 116/Del/85 dated 13th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

14 Claims

A large-area photovoltaic cell (30), formed on an electrically insulating substrate (11), including a plurality of small-area photovoltaic segments (10a, 10b, 10c, 10d, 10e, 10f) arranged in a plurality of rows and columns, said segments (10a, 10b, 10c and 10d, 10e, 10f) in each of said rows being electrically connected in series and said rows being electrically connected in parallel, including a plurality of discrete first small-area electrodes (14) formed on said substrate (11) electrically isolated from one another, each first electrode (14) having a major portion (14b) in contact with a discontinuous layer of photoresponsive semiconductor material (12) and a minor portion (14a) in contact with a second electrode (22), and a plurality of second small-area electrodes (22), electrically isolated from one another, each said second electrode (22) overlying the major portion (14b) of one of said first electrodes (14) and electrically contacting the minor portion (14a) of an adjacent segment in the same row to establish a series connection, bus bars (32, 34) at the ends of said rows for establishing parallel connection of said rows, characterized in that said semiconductor layer (12) contacts said substrate (11) between said first electrodes (14) in each said row and column.

(Complete specification 22 pages.

Drawing 2 sheets).

CLASS : 87 D, F.

160572

Int. Cl : A 63 b. 61/00, 69/38.

"AN IMPROVED REBOUND SCREEN FOR BALL GAMES."

Applicant : CHARLES WILLIAM DRANSFIELD, an Australian citizen, of 38 Grandview Parade, Caringbah, New South Wales, Australia.

Inventor : CARL DRANSFIELD.

Application for Patent No. 847/Del/1983 filed on the 20th December, 1983.

Convention date: December 24, 1982 (PF-7440)/(Australia).

Appropriate office for filing opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

An improved rebound screen for a ball game comprising an upright frame supporting resilient means from which a striking ball will elastically rebound, said resilient means being provided with a service line which delineates a fair service region on said resilient means while simultaneously demarcating a service fault region on said resilient means immediately below said fair service region, characterised by said resilient means being connected to said upright frame by adjustable connecting means the adjustment of which regulates the elastic properties of said resilient means and thereby controls the degree of rebound of a striking ball and means connected to and supported by said upright frame located between the service fault region of said resilient means and the base of said upright frame, said means constituting a region of substantially inelastic rebound for a striking ball.

(Complete specification 9 pages

Drawing 2 sheets

CLASS : 160 A.

160573

Int. Cl. : A 61 g—3/00.

"A RESCUE AND EMERGENCY CARE VEHICLE."

Applicants : THE DIRECTOR, ALL INDIA INSTITUTE OF MEDICAL SCIENCE, Ansari Nagar, New Delhi-110016, India, and INDIAN INSTITUTE OF TECHNOLOGY, DELHI, Hauz Khas, New Delhi-110016, India, an Indian Institute.

Inventors : SUJOY KUMAR BUHA, SNEH ANAND and LALIT MOHAN NATH.

Applicant for Patent No. 524/Del/1984 filed on 28 Jun 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

5 Claims

A rescue and emergency care vehicle comprising a drivers cabin and a patient cabin characterized in a first cabinet transversely provided in said patient cabin for supporting a first stretcher, a second cabinet longitudinally disposed within said patient cabin for supporting a second stretcher, an instrument rack on a side wall of said vehicle and disposed between said first cabinet and second cabinet, a pair of grooves provided transversely on the floor of the vehicle for slidably supporting said second cabinet which has legs with bearings disposed within said grooves each of said grooves having a mouth smaller than width of said bearings.

(Complete specifications 9 pages

Drawings 1 sheet)

CLASS : 128 G & 169 C.

160574

Int. Cl. : A61b-5/00, 5/16.

"A DEVICE FOR EVALUATING SENSATION TOUCH OF THE SKIN OF A PATIENT".

Applicant : THE DIRECTOR, All India Institute of Medical Science, a Statutory Hospital and Research Body, Ansari Nagar, New Delhi-110016, India, an Indian National.

Inventor : JAGJIT SINGH PASRICHA.

Application for Patent No. 547/Del/1984 filed on 5th July 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

6 Claims

A device for evaluating the sensation of touch of the skin of a patient comprising an elongate housing having a single retractable sensing element, an actuator assembly disposed within said housing having an actuator to which inner end of said sensing element is secured, said actuator having thereon graduations for indicating the displacement of said sensing element beyond the housing, are provided.

(Complete specification 10 pages.

Drawing 1 sheet).

Class : 173B.

160575.

Int. Class : E02b 13/00, A01g 25/00.

"A DRIP IRRIGATION DEVICE FOR REDUCING THE PRESSURE OF A LIQUID SUPPLIED AT HIGH PRESSURE".

Applicant : KULKER S.A., a French company, of Route d'Orleans, 45600 Sully-sur-loire, France.

Inventor : Jean-Louis Selingant.

Application for Patent No. 591/Del/84 filed on 23rd July, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

7 Claims

A drip irrigation device for reducing the pressure of a liquid supplied at high pressure, said device comprising :

a rigid base member (10), comprising a tip for insertion into a feeding pipe and a plate portion having a peripheral edge and an end face, said tip having therethrough a first central bore (22) for supply or discharge of a liquid, said end face having formed therein a first pressure-drop circuit (24) comprising a first substantially ring-shaped groove having extending there into a plurality of radially extending baffles defining a staggered annular path, a first opening connecting said first central bore to a first end of said first groove, a peripheral recess radially surrounding said first groove, and a second opening connecting a second end of said first groove to said peripheral recess;

a rigid cap (12) member comprising tip (34) for insertion into a second feeding pipe and cylindrical portion having an internal end wall, said tip having therethrough a second central bore for discharge or supply of the liquid, said end wall having formed therein a second pressure-drop circuit (44) comprising a second substantially ring-shaped groove having extending thereto, a plurality of radially extending baffles defining a staggered, annular path, a third opening connecting said second central bore to a first end of said second groove, a peripheral groove radially surrounding said second groove, and a fourth opening connecting a second end of said second groove to said peripheral groove;

said base member being sealingly mounted within said cap member with said first central bore, said first groove and said peripheral recess of said base member confronting respectively said second central bore, said second groove and said peripheral groove of said cap member; and

an impermeable membrane (14) interposed between said end face of said base member and said end wall of said cap member, said membrane sealingly separating said first central bore and said first groove from said second central bore and said second groove, respectively, and allowing communication between said first and second pressure-drop circuits (44) only peripherally of said membrane (14) between said peripheral recess and said peripheral groove, said membrane comprising a flat cylindrical member formed of a flexible and elastic material and thereby comprising means for sealingly separating said first and second grooves and for automatically regulating the distribution of the pressure of the liquid therebetween by deformation thereagainst.

(Complete specification 11 pages.

Drawing 4 sheets).

CLASS : 40A1.

160576

Int. Cl. : B01j 9/00.

"A REACTOR FOR EFFECTING AN EXOTHERMIC CATALYTIC REACTION".

Applicant : TOYO ENGINEERING CORPORATION of 2-5, Kasumigaseki 3 chome, Chiyoda-ku, Tokyo, Japan.

Inventor : IITIN ZANMA, YOSHINORI NISHIMURA, KAZUO SHOJI MAKOTO SHIMAGAKI AND YOICHI NAKAJIMA.

Application for Patent No. 966/Del/84 filed on 28th December, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

15 Claims

A reactor for effecting an exothermic catalytic reaction wherein gaseous feed materials containing hydrogen contact a granular catalyst to form a product gas, comprising:

a cylindrical, vertical outer pressure vessel having a top cover, a bottom cover, an inlet for said gaseous feed materials and an outlet for said product gas;

a heat exchanger centrally mounted within said outer pressure vessel coaxially therewith, said heat exchanger having a cylindrical outer shell defining a shell-side heat exchange compartment therein and a plurality of heat exchange tubes which extend into said shell-side compartment but do not communicate therewith; and

a pair of inner and outer cylindrical, gas-permeable catalyst retainers, said catalyst retainers being mounted within said pressure vessel coaxially therewith between said shell of said heat exchanger and said pressure vessel;

a bottom wall extending beneath said catalyst retainers and fixedly connecting said catalyst retainers to each other, said gas-permeable catalyst retainers defining at least one catalyst bed for said catalyst therebetween above said bottom wall;

a cooling passage structure for said coolant comprising a coolant inlet passage and a coolant outlet passage both extending through said top cover of said outer pressure vessel, and a multiplicity of vertical cooling tubes which extend into said catalyst bed(s), said cooling tubes being arranged in at least one circular formation concentric with the vertical axis of said outer pressure vessel, each of said cooling tubes being in communication with said coolant inlet passage and coolant outlet passage so that the coolant may be circulated through said cooling passage structure; means for supplying said coolant through said coolant inlet passage to the bottom ends of said cooling tubes through said coolant inlet passage to the bottom ends of said cooling tubes and means for discharging vapor of said coolant of a liquid-vapor mixture of said coolant from top ends of said cooling tubes to said coolant outlet passage, and

a cylindrical gas-impermeable outer partition wall coaxial with said pressure vessel and mounted between said pressure vessel and said outer gas-permeable catalyst retainer and spaced apart from said pressure vessel and said outer catalyst retainer, said cylindrical outer partition wall defining a first space between said pressure vessel and said cylindrical outer partition wall and a second space between said cylindrical outer partition wall and said outer catalyst retainer, which first and second spaces are not in direct communication with each other.

(Complete specification 46 pages Drawing 6 sheets)

CLASS : 144 A & E & 6. 160577

Int. Cl. : C09d 5/00.

"A BASECOAT COMPOSITION".

Applicant : IMPERIAL CHEMICAL INDUSTRIES PLC, formerly known as IMPERIAL CHEMICAL INDUSTRIES LIMITED, of Imperial Chemical House, Millbank, London SW1P 3JF, England, a British Company.

Inventor : ALAN JAMES BACKHOUSE.

Application for Patent No. 968/Del/84 filed on 28th December, 1984.

Convention date April 14, 1980/8012199/U.K.

Divisional to Patent Application No. 180/Del/81 filed on 30th March, 1981.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

7 Claims

A basecoat composition suitable for use in the production of a multi-layer, protective and/or decorative coating upon a substrate, the composition comprising:—

(a) a film-forming material,

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(b) a volatile liquid medium of the kind such as herein described for the said material, and

(c) pigment particles of the kind such as herein described dispersed in the said liquid medium;

characterised in that the constituents (a) and (b) are provided by a dispersion in an aqueous medium of crosslinked polymer microparticles of the kind such as herein described which have a diameter in the range 0.01 to 10 microns, are insoluble in the said aqueous medium and are stable towards gross flocculation, the dispersion have a pseudoplastic or thixotropic character.

(Complete specification 48 pages).

CLASS : 53 A & D.

160578

Int. Cl. : B 62 k-3/02, 21/00.

"IMPROVED CHAIRED BICYCLE."

Applicants : DR. PRASHANT KUMAR, Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology, Kanpur-208016 and Professor Srinivasa Sampath, Director, Indian Institute of Technology, Kanpur-208016, India, both Indian Nationals.

Inventors : PRASHANT KUMAR and SRINIVASA SAMPATH

Application for Patent No. 008/Del/1985 filed on 07 Jan 1985.

Complete Specification left on 10 May 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110 005.

4 Claims

An improved chaired bicycle characterised in that the handle of the bicycle is directly mounted on the frame of the bicycle through a set of ball bearings and is eccentrically connected to the tube of the frame mounted on the front wheel of the bicycle through a link system consisting of three links; one L-shaped link and two straight longitudinal links, the free end of the shorter side of the L-shaped link is connected to the tube of the fork mounted on the front wheel, the first straight longitudinal link is connected eccentrically to the handle of the bicycle, the second straight longitudinal link is connected at its two ends to the respective free ends of the other two links through spherical hinges.

(Provisional specifications 3 pages Drawing 1 sheet)

(Complete specifications 6 pages. Drawing one sheet)

CLASS : 32F. 160579

Int. Cl. : C08j 1/34.

"A PROCESS FOR PREPARING BASE POLYMER FOR ION EXCHANGE MEMBRANES".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : VIKAS MADHUSUDAN NADKARNI, DAULAT RAM SAINI, ANIT KUTTA, SOBHAN GHOSH, SURESH NFFLKANTH KSHIRSAGAR & RAGHUNATH ANANT MASHELKAR.

Application for patent No. 251/Del/85 filed on 23rd March, 1985.

Complete specification left on 4th April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

An improved process for the preparation of base polymer suitable for preparing ion exchange membranes comprises grafting benzene and divinyl benzene directly into molten

high density polyethylene powder in the presence of hydroquinone by mixing gradually adding styrene benzoyl peroxide mixture to the molten mixture, homogenising and cooling mixture.

(Provisional specification 5 pages)

(Complete specification 7 pages).

CLASS: 128G.

160580

Int. Cl.: A 61m 1/00 & G01 3/00.

"RESPIRATORY FLOW METER".

Applicant: Virendra Singh, S/o Shri Rameshwar Singh, Indian Citizen, C-86 Shastri Nagar, Jaipur-302 006 (Rajasthan).

Inventor: VIRENDRA SINGH.

Application for patent No. 635/Del/85 filed on 5-8-1985 and Post dated to 21st February, 1986.

Complete specification left on 21-2-1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

4 Claims

Respiratory flow meter comprises of a cylindrical body having a central rod in the central axis of the cylindrical body, a mouth cap on the mouth end side and an end cap on the other side of the cylindrical body, a movable diaphragm which slides on said central rod against the action of two springs mounted on said central rod on opposite sides of the diaphragm, the cylindrical body further having a slot with two sliding pointers along with two pointed scales alongside said slot, said slot and pointers being covered with a transparent slot cover to view the movement of pointers, the part of the pointer lying inside the body is provided with small compressible spring and its terminal part has flared projection to prevent its fall from the slot and to facilitate movement of pointer with diaphragm.

(Complete specification 7 pages Drawing 1 sheet)

CLASS: 32F₃ (b) & 40 B.

160581

Int. Cl.: B01j 11/08.

"PROCESS FOR PREPARING IMPROVED MIXED VANADIUM PHOSPHORUS OXIDE CATALYSTS".

Applicant: THE STANDARD OIL COMPANY, an Ohio Corporation, having a place of business at Patent & License Division, Midland Building, Cleveland, Ohio 44115, United States of America.

Inventors: ERNEST CARL MILBERGER, NOEL JEROME BREMER & DENNIS EDWARD DRA.

Application for Patent No. 51/Del 81 filed on 28th January, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office Branch, New Delhi-5.

21 Claims

A process for the preparation of oxidation catalyst having properties such as herein described containing the mixed oxides of vanadium and phosphorus which comprises the steps of

- (a) introducing a substantially pentavalent vanadium containing compound of the kind such as herein described and a phosphorus containing compound of the kind such as herein described into an organic liquid medium capable of reducing the vanadium to a valence state less than + 5;
- (b) effecting the reduction of at least a portion of the vanadium by heating the vanadium containing reaction medium to a valence state + 4 while in the presence of the phosphorus containing compound;

(c) recovering in a manner known per se the mixed vanadium phosphorus oxide containing catalyst precursor;

(d) drying the catalyst precursor;

(e) calcining in a manner known per se the catalyst precursor to form the active oxidation catalyst.

(Complete specification 25 pages Drawing 8 sheets).

CLASS: 139 B.

160582.

Int. Class: C01b—33/02.

"AN IMPROVED PROCESS FOR THE PREPARATION OF PURE SILICON".

Applicant: NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA, a Company incorporated under Companies Act, 1956, of 20-22, Zamindarpur Community Centre, Kailash Colony Extension, New Delhi-110 048, India.

Inventors: HARI DAS BANERJEE, NIRMAL CHANDRA ROY AND HIRENDRA NATH ACHARYA

Application for Patent No. 35/Del/1984 filed on 11th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-5.

2 Claims

An improved process for the preparation of pure silicon by heating silane in a reaction at a temperature of about 700°C characterised by evacuating the reactor packed with fine silicon powder in the form of static and while being gently heated to a temperature of about 100°C in producing an inert gas of hydrogen into said reactor raising the temperature of the reactor to 700°C and introducing silane, into said reactor at a partial pressure of 1 mm to 10.2 mm of Hg.

Compl. Spec. 7 pages.

Drg. 1

CLASS: 128 G.

160583

Int. Class: A61m—25/00.

"A PERITONEAL CATHETER".

Applicant: ISHWAR PRAKASH AGRAWAL, an Indian national of Mohalla Dalaganj, Distt. Shahjahanpur, U. P. India.

Inventor: ISHWAR PRAKASH AGRAWAL.

Application for Patent No. 37/Del/1984 filed 1st January, 1984.

Complete specification left on 11th April, 1985.

Appropriate office for opposition proceedings (Rule Patents Rules, 1972) Patent Office Branch, New Delhi-5.

6 Claims

A peritoneal catheter for use in drainage of cerebrospinal fluid to the peritoneal cavity which comprises in a tube having a slit valve in the proximity of the distal end of the tube characterized in a cover member held to that end of said tube having the slit valve, the portion of the tube containing said slit valve disposed within said cover member and in a spaced relationship thereto, a plurality of spaced openings provided in said cover member.

(Provisional specification 4 pages).

(Complete specification 8 pages Drawing 1 page.)

CLASS : 83 A2.

160584.

Int. Class : A 23 c 21/00.

"PROCESS FOR PREPARING A HIGH PROTEIN SOY-BEAN PRODUCTS".

Applicant : ROBERT RAYMOND BILY, a U.S. citizen of 10048 Bon Vista Court, San Jose, California 95127, United States of America.

Inventor : ROBERT RAYMOND BILY.

Application for Patent No. 78/Del/1984 filed on 27th January, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

(3 Claims)

A process for preparing a high protein whey soybean product which comprises cooking previously uncooked dry soybeans until they are of a firm texture, comminuting the cooked soybeans in the presence of water to form a uniformly dispersed paste without free water, mixing said soy paste with whey solids so as to cause the constituents of the whey to react with the comminuted constituents in the paste and form a paste without free water.

(Complete specification 11 pages).

CLASS : 39 C.

160585.

Int. Class : B01d-15/00.

"A PROCESS FOR PRODUCING A HYDROGEN-RICH GAS".

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, a corporation of Delaware, United States of America, carrying on business as a company for the holding of patents and granting licenses thereunder, and technical development and research work at 180 Park Avenue, Florham Park, New Jersey, United States of America.

Inventor : DANIEL TRAFICANTE.

Application for Patent No. 95/Del/1984 filed on 31st January, 1984.

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(4 Claims)

A process for producing a hydrogen-rich gas substantially free of carbon monoxide and methane capable of employment as an ammonia synthesis gas which comprises :

- (a) cooling a hydrogen-containing raw gas stream, containing hydrogen as a main constituent together with carbon monoxide and methane in a first heat exchange zone to condense at least a major portion of said methane;
- (b) recovering and expanding in any conventional manner said methane-containing condensate and returning the resulting cooled methane-containing vapor and liquid to said first heat exchange zone to cool additional quantities of said raw gas stream;
- (c) further cooling said cooled raw gas stream, now depleted in methane, in a second heat exchange zone to condense at least a major portion of said carbon monoxide therefrom and to form a treated hydrogen gas stream containing low levels of carbon monoxide and methane;
- (e) recovering and expanding in any conventional manner said carbon monoxide-containing condensate and serially passing the resulting cooled carbon monoxide gas and liquid to said second heat exchange

zone and thence to said first heat exchange zone to provide at least a portion of the cooling medium passed to said zones;

- (c) contacting said treated hydrogen gas stream in a nitrogen wash tower with liquid nitrogen to remove essentially all of said remaining carbon monoxide and methane therefrom, thereby forming a liquid bottoms product containing nitrogen and said removed carbon monoxide and methane impurities, and an overhead product comprising hydrogen and nitrogen which is substantially free of carbon monoxide and methane; and

- (f) cooling a nitrogen gas stream with the bottoms product of step (c) in any conventional manner to form liquid nitrogen which is fed to the nitrogen wash tower.

(Complete specification 20 pages

Drawing 1 sheet).

CLASS : 206 E.

160586.

Int. Cl. : H01L-7/00.

"PROCESS FOR PRODUCING A THYRISTOR DEVICE".

Applicant : WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, a British company, of Pew Hill, Chippenham, Wiltshire, England.

Inventor : JOHN MANSELL GARRETT.

Application for Patent No. 103/Del/1984 filed on 3rd February, 84.

Convention date 9-2-1983/8303618/(Great Britain).

Appropriate Office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-5.

(7 Claims)

A process for producing a thyristor device comprising a semiconductor body having a plurality of superimposed semiconductor layers of alternating conductivity type in which a controlling base region is produced by diffusing into a surface of the semiconductor body p-dopant from a p-dopant source to a predetermined depth, the p-dopant source is then removed and the diffusion process continued in the absence of the p-dopant for a time sufficient to drive the p-dopant further into the body to a depth sufficient to define the controlling base region and to out-diffuse p-dopant in the body from the said surface to provide a graduated dopant concentration profile having maximum value at a depth approximately at the midpoint of the controlling base region.

(Complete specification 15 pages

Drawing 3 sheets).

CLASS : 83B5.

160587.

Int. Class : A23g—3/00.

"A METHOD OF PREPARING A CHEWING GUM COMPOSITION".

Applicant : WARNER-LAMBERT COMPANY OF 20, Tabor Road, Morris Plains, New Jersey 07950, U.S.A., a corporation organised and existing under the laws of State of Delaware, U.S.A.

Inventors : THOMAS JOSEPH CARROLL, DEBORAH FEINERMAN, ROBERT JOHN HUZINEC & DOMINIC JOSEPH PICCOLO.

Application for patent No. 273/Del/84 filed on 28th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

(11 Claims)

A method of preparing a chewing gum composition having a sequentially releasable, plural flavor system comprising :

- (a) combining a gum base of the kind such as herein described and a water-insoluble encapsulated flavor component to form a first mixture, said encapsulated flavor component having a water-insoluble coating of the kind such as herein described retaining the flavoring, said encapsulated flavor component residing in substantially anhydrous condition within said gum base;
- (b) adding to said first mixture a chewing gum additive selected from the group consisting of sweeteners, plasticizers, softeners, elastomers, elastomer solvents, fillers, coloring agents and mixtures thereof of the kind such as herein described to form a second mixture; and
- (c) adding to said second mixture a liquid flavor component to form a third mixture; said encapsulated flavor component and liquid flavor component comprising different flavors.

Compl. Specn. 28 pages.

CLASS : 83B5.

160588.

Int. Class : A23g 3/00.

"A METHOD OF PREPARING A CHEWING GUM COMPOSITION".

Applicant : WARNER-LAMBERT COMPANY, of 201 Tabor Road, Morris Plains, New Jersey 07950, U.S.A., a corporation organised and existing under the laws of State of Delaware, U.S.A.

Inventors : SUBRAMAN RAO CHFRUKURI, KENNETH PAUL BILKA & FRANK HRISCISE.

Application for patent No. 274/Del/84 filed on 28th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, New Delhi-110005.

(15 Claims)

A method of preparing a chewing gum composition having flavour-sweetness enhanced release, which comprises :

- (a) admixing a chewing gum base such as herein described at a temperature from 70°C to 120°C with a liquid softener such as herein described to obtain a homogenous pliable mixture;
- (b) adding to the homogenous pliable mixture a sweetening agent such as herein described and spherical particles of edible food having a bulk density of 2.0 to 25.0 lbs/cu. ft. and micro-porous channels;
- (c) while continuing mixing, adding a flavouring agent such as herein described and optional remaining ingredients to uniformly mix the flavouring agent throughout the chewing gum base to enable the flavouring agent to be sorbed in the spherical particles; and
- (d) thereafter forming the mixture into suitable chewing gum shapes.

Compl. Specn. 36 pages.

CLASS : 148 2, 202 C.

160589.

Int. Cl. : C 11b 11/00.

METHOD FOR SEPARATING A CRYSTALLIZABLE COMPONENT FROM A NON-CRYSTALLIZABLE COMPONENT.

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION OF DELAWARE, UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENCES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT 200 PARK AVENUE, FLORHAM PARK, NEW JERSEY, U.S.A.

Inventor : THEODORE HARVEY WEST.

Application for Patent No. 277/Del/84 filed on 28th March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

11 Claims

A method for separating a crystallizable component of the kind such as herein described from a non-crystallizable component of the kind such as herein described in a multi-component feed stream, said method characterised by :

A. passing the feed stream into a first mixing zone and adding solvent of the kind such as herein described selectively miscible with the non-crystallizable component to the first mixing zone which solvent is at a temperature lower than the temperature of the feed entering the first mixing zone to thereby crystallize at least a portion of the crystallizable component and from a slurry;

B. passing slurry from the first mixing zone to a second mixing zone wherein the slurry is contacted with additional quantity of solvent, the temperature of this solvent added to the second mixing zone being substantially higher than that of the solvent added to the first mixing zone to thereby remove quantities of the non-crystallized component from the crystallized component; and

C. passing slurry from the second mixing zone to a separation zone wherein crystallized component is separated from non-crystallized component and solvent.

Compl. Specn 20 pages.

Drgs. 1 sheet.

CLASS : 144 E.

160590

Int. Cl. C09d 5/00.

A PROCESS FOR PREPARING MYROBOLAN BASED PAINTS.

Applicant : BHARAT HEAVY ELECTRICALS LTD., 18-20 KASTURBA GANDHI MARG, NEW DELHI-110 001, INDIA, AN INDIAN COMPANY.

Inventors : RAMESH KUMAR MISRA AND VIJAY KUMAR GANPATE.

Application for Patent No. 306/DEL/1985 filed on 11th April 1985.

(Antidated to 19th October 1981).

Divisional to application No. 677/DEL/1981 filed on 19th October 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

5 Claims

A process for preparing myrobolan based paints which comprises dissolving myrobolan powder in water, treating the same with a source of formaldehyde such as 37% formaldehyde in the presence of an acid catalyst such as HCl or H₂SO₄ followed by heating the mixture at a temperature of 100 to 140°C for 2 to 3 hours to obtain a water thinnable varnish and thereafter modifying the obtained varnish by cooking the same with malinised oil in an amount of 10 to 20% by weight at a temperature of 130 to 150°C for about 2 hours with or without water soluble chromate salts and finally converting the thus obtained modified varnish into paint by mixing pigments and extenders such as herein described in a known manner.

Compl. Specn. 14 pages.

CLASS : 25 B.

160591.

Inventors : (1) ALLAN SKOV & (2) JENS RICHARD ROSTRUP-NIELSEN.

Int. Cl. : E 04 c 2. 04.

A PROCESS FOR THE MANUFACTURE OF BUILDING MATERIALS.

Applicant : GRANULITE LIMITED, A BRITISH COMPANY OF MILLBUCK HOUSE, CORPORATION STREET, RUGBY, CV 21 2DW, ENGLAND.

Inventors : BRYAN JAMES WALKER.

Application No. 223/MAS/84 filed on 31st March 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Madras Branch.

7 Claims

A process for the manufacture of building materials which comprises mixing pulverised fuel ash with a binder comprising quicklime and/or hydrated lime in an amount less than 5% (calculated as CaO) based on the total dry weight of fuel ash and binder, forming the mixture with the addition of water if desired, into granules of pellets in a known way, optionally moulding the granules or pellets to form building units, and then curing and hardening granules or pellets either in the form of individual granules or pellets or moulded into building units, by maintaining them at a temperature within the range of 35° to 100°C in an atmosphere saturated with water vapour.

Compl. Specn. 8 pages.

Drgs. 2 sheets.

CLASS : 40 H.

160592.

Int. Cl. : B 01 d 53.00.

A PROCESS FOR OBTAINING INDUSTRIAL GASES FREE FROM CARBON DIOXIDE.

Applicant : THE DOW CHEMICAL COMPANY, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, OF 2030 DOW CENTER, ABBOTT ROAD, MIDLAND, MICHIGAN 48640, U.S.A.

Inventor : ROSCOE LAMONT PEARCE

Application No. 224/MAS/84 filed 31st March, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

4 Claims

A process for obtaining industrial gases such as natural gas, refinery gas and synthetic gas free of carbon dioxide by contacting the gas, in a gas-liquid contactor, with an aqueous solution which contains an alkanol amine absorbent-reactant; circulating the solution to a regeneration step wherein the CO₂ is released from the absorbent, and the essentially CO₂-free absorbent recycled to the contactor, the improvement which comprises adding at least 50 parts of copper +2 per million parts of the solution and at least 50 parts per million parts of solution of one or more additional inhibitor selected from the class consisting of : dihydroxyethylglycine, an alkali metal carbonate, an alkali metal permanganate, ammonium permanganate, a nickel oxide, a bismuth oxide, dihydroxyethylglycine, an alkali metal thiocyanate, or ammonium thiocyanate.

Compl. Specn. 18 pages.

Drgs. Nil.

CLASS : 32 B & C.

160593.

Int. Cl. : C 07 c 1/00.

A PROCESS FOR THE PREPARATION OF SYNTHETIC IN THE RANGE OF C₃ TO C₁₁ BY CATALYTIC CONVERSION.

Applicant : HALDER TOPSE A/S OF NYMLLEVEJ 55, DK-2800 LYNGBY, DENMARK, A COMPANY INCORPORATED IN DENMARK.

Application No. 330/MAS/84 filed May 4, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

4 Claims.

A process for the preparation of synthetic hydrocarbons in the range of C₃ to C₁₁ by catalytic conversion in two steps of a synthesis gas containing hydrogen and carbon oxides, whereby in the first step a feed stream containing the synthesis gas is converted in the presence of a catalyst, at a pressure of 10-80 bar and a temperature of 200-300°C, into an intermediate product containing methanol and/or dimethyl ether, after which in the second step the entire intermediate product from the first step is converted, in the presence of a catalyst and at substantially the same pressure as in the first step, to form a raw product stream of hydrocarbons, which raw product stream is cooled and thereby separated into a condensed product stream and a gaseous recycle stream, which recycle stream without further separation is recycled to the inlet of the first step, characterized in carrying out the second step at an inlet temperature of 300-340°C while supplying heat to obtain an outlet temperature of 410-440°C, the difference between inlet temperature and outlet temperature being at the same time at least 30°C higher than the temperature increase caused by the heat generated by the chemical reaction taking place in the second step.

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 197.

160594.

Int. Cl. : A 47 I 11/00, 13/00.

APPARATUS FOR CLEANING THE INSIDE OF A ROOM.

Applicant & Inventor : IZUMI MASAHIKO, OF 13-14, 2-CHOME, NISHIMAGOME, OOTA-KU, TOKYO, JAPAN, A JAPANESE NATIONAL.

Application No. 231/Mas/84 filed on 3rd April, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

6 Claims

An apparatus for cleaning the inside of a room, which comprises

a tank which has an inlet and outlet pipes for a gas passed through the tank and inside the tank a plurality of nozzles for producing a large number of mist particles by injecting or spraying water so as to strike the side wall of the tank to thereby give said mist particles to the gas being passed through the tank,

a pump for injecting or spraying water from the nozzles,

a pipe with a filter for passing the mist particles containing gas from the tank to a room to be cleaned, the filter being provided for destroying large mist particles of more than 0.5 micron by contact of them with the filter and by the resulting evaporation, in order to produce a gas containing 50,000 mist particles or more of essentially not more than 0.5 micron per cubic foot, and

a pipe provided with a fan for discharging the gas whose mist particles have absorbed dust particles and micro-organisms during passing through the room.

Compl. Specn. 19 pages.

Drgs. 4 sheets.

CLASS : 40 E

160596

Int. Cl. : B 01 J 43/00, 50/00.

APPARATUS FOR SEPARATING MIXTURES OF LIQUID AND GAS.

Applicant : SHELL INTERNATIONALE RESEARCH MATSCHAPPIJ B.V., A NETHERLANDS COMPANY, OF CAREL VAN BYLANDT LAAN 30, THE HAGUE, THE NETHERLANDS.

Inventors : STEPHANUS PARRDEKOOPER, 2. JOHAN JAN BUREND PEK.

Application for Patent No. 239/Mas/84 filed on 5th April 1984.

Convention Date on 8th April 1983/No.8309633/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

12 Claims

Apparatus for separating mixtures of liquid and gas, comprising a housing surrounding at least one vertically extending tubular wall defining a substantially tubular inner space and a substantially annular outer space within the housing, a topwall positioned above the tubular wall and confining said inner space, and said outer space in upward direction, inlet means for supplying a mixture of gas and liquid into the lower part of the inner space, means for imparting a rotary motion to the mixture to separate the gas and liquid in the inner space, comprising a primary gas outlet tube, arranged substantially coaxially with the tubular wall, passing through the top wall and having the lower end thereof positioned inside the inner space and at least one liquid discharge opening arranged in the tubular wall and outlet means for separately discharging gas and liquid from the outer space comprising at least one secondary gas outlet tube through the topwall and a liquid discharge opening through the housing the apparatus further comprising a layer of flow impinging means for separating liquid from gas said layer being arranged above the upper end of the secondary gas outlet tube, characterized in that the primary gas outlet tube closely fits in an opening extending substantially vertically through the layer of flow impinging means, and in that a fluid communication is provided for substantially laterally discharging liquid from the primary gas outlet tube into the layer of flow impinging means.

Compl. specn. 13 pages.

Drg. 3 sheets

CLASS : 85 L.

160596

Int. Cl. : F 23 g 5/00.

AN IMPROVED INCINERATION SYSTEM FOR GENERATING HIGH-PRESSURE SUPERHEATED STEAM FOR PRODUCING MECHANICAL WORK.

Applicant & Inventor : Tsung-Hsien Kuò, residing at 465 Yuong An Street, Cha-Yi City Taiwan, Republic of China, A Chinese national.

Application No. : 343/MAS/84 filed on 9th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Madras Branch.

10 Claims

An improved refuse incineration system for generating high-pressure superheated steam for producing mechanical work comprising, a continuous steam jacket dryer having moving rake for drying refuse before passing said refuse to a furnace therein, infixed screw means for squeezing refuse into one end of said dryer, outlet screw means at the other end of said dryer of squeezing out the dried refuse, vent means for moving out vapor from said dryer means for compressing said vapor and return to said dryer's steam jacket, vapor line means for supplying steam from the turbine

to said dryer's steam packet, conveyor means for moving the dried refuse to a furnace having a boiler means for generating high-pressure superheated steam for producing mechanical work and an ash screw conveyor and ash outlet control valve.

Compl. Specn. 15 Pages.

Drgs. 1 Sheet.

CLASS : 97 A & 97 B.

160597

Int. SCI. : F 27 d 9/00.

"APPARATUS FOR SELECTIVELY CONNECTING AN ELECTRODE OF AN ELECTRIC ARC FURNACE TO A SOURCE OF COOLING FLUID".

Applicant : BRITISH STEEL CORPORATION, A BRITISH CORPORATION INCORPORATED AND EXISTING UNDER THE IRON AND STEEL ACT 1967 of 9, ALBERT EMBANKMENT LONDON SE1 7SN., ENGLAND.

Inventors : 1. TIMOTHY REYNOLDS, 2. ROBERT WALTER MONTGOMERY, 3. HAROLD SWABY, 4. HENRY COBY GANER.

Application for Patent No. 244/Mas/84 filed on 6th April 1984.

Convention date on 7th April 1983/No. 8309469/(GREAT BRITAIN).

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972). Patent Office, Madras Branch.

12 Claims

Apparatus for selectively connecting an electrode of an electric arc furnace to a source of cooling fluid, the apparatus including a coupling having passageways extending there through for the flow of cooling fluid and comprising at least two separable sections, one such section being connected to receive cooling fluid from the source and the other to convey such cooling fluid to the electrode when coupled to the said one section, a guide structure for guiding into close alignment one separable section with respect to the other section and a clamping device operable to clamp the assembled sections together to connect the electrode to the source of cooling fluid.

Compl. Specn. 14 Pages.

Drgs. 3 Sheets

CLASS : 172 C.

160598

Int. Cl. : D 01 g 15/00.

CARDING MACHINE AND A METHOD OF CARDING.

Applicant : OLIN SYLVESTER ELLIOTT, JR. a U. S. Citizen of 2011 Cleveland Street GREENVILLE South Carolina, United States of America.

Application No. 245/MAS/84 filed 7th April 1984.

Convention Date 19th December 1983 No. 83.33767 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Madras Branch.

9 Claims

1. A carding machine comprising :
 - a plurality of lickerin rolls;
 - a cylinder receiving opened fibres from said lickerin rolls;
 - a doffer roll receiving carding fibres from said cylinder at a location remote from said lickerin rolls;
 - a cat screen extending partially about said cylinder positioned adjacent thereto subsequent to reception of carded fibers therefrom by said doffer roll and prior to reception of fibers from said lickerin rolls;

said card screen having a plurality of circumferentially spaced transverse slots thereacross for relieving air currents generated by the action of said cylinder during carding; and

an air suction plenum extending substantially thereacross and circumferentially of said screen for relieving pressure generated by said air currents.

Compl. Specn. 22 Pages.

Drgs. 1 Sheet.

CLASS : 90 I & 172 C 9.

160599

Int. Cl. : C 03 b 37/08.

A METHOD OF PRODUCING FIBER FORMING BUSHING.

Applicant : NITTO BOSEKI CO. LTD. of No. 1, Aza Higashi, Gonome, Fukushima-shi, Fukushima, Japan and TOKURIKI HONTEN CO. LTD. of No. 2-9-12, Kaji-Cho, Chiyoda-ku, Tokyo, Japan, both are Japanese Companies.

Inventors : TAKESHI WATANABE
GENJIRO TAKEUCHI

Application No. 246/MAS/84 filed 9th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Madras Branch.

3 Claims

A method of producing fiber forming bushing wherein platinum-rhodium nozzle elements are welded with platinum washers onto a bottom plate of a platinum-rhodium fiber forming bushing, characterized by the steps of attaching nozzle elements into respective holes bored in a bottom plate of a fiber forming bushing through a platinum washer plate having holes bored therein with the same intervals as those of the holes of said bottom plate, said respective holes bored in said washer plate being registered with said corresponding holes bored in said bottom plate, and thereafter heating and melting said washer plate so as to fix by welding said nozzle elements, the number of said holes bored in said bottom plate and the total number of said holes bored in said platinum washer plate are equal to one another and is in the range of 200 to 4000.

Compl. Specn. 10 Pages.

Drgs. 2 Sheets.

CLASS : 69A & K.

160600

Int. Cl. : H 01 h 5/00, 9/56.

AN OLEOPNEUMATIC CONTROL SYSTEM FOR ELECTRIC CIRCUIT-BREAKERS.

Applicant & Inventor : GRATZMULLER Claude, Alain, a French citizen, of 97 Avenue Victor Hugo, 75016 Paris, France.

Application No. 355/MAS/84 filed on May 16, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules 1972) Patent Office, Madras Branch.

8 Claims

An oleopneumatic control system for an electric circuit-breaker which comprises a jack for actuating the moving contact of the circuit breaker, a main high-pressure oleopneumatic accumulator, a valve system which has the function of supplying and draining the jack and selectively connects the work chamber of the jack either to the accumulator or to a low-pressure tank, means for restoring the jack to the tripped position of the circuit-breaker, an order-transmitting hydraulic circuit comprising at least one pressure-responsive hydraulic actuator which moves said valve system to the supply position when said actuator is subjected to the high pressure and moves said valve system to the discharge position when said actuator is no longer subjected to the high pressure, an order-transmitting operational unit, a circuit providing a connection between the operational unit and said valve system and a pressure reducer connected to the order-transmitting hydraulic circuit, the function of said pressure reducer being to deliver a low pressure PR reduced from the high pressure of the accumulator, wherein said control system comprises at least one compensating reduced-pressure accumulator such as herein defined having a capacity of one hundred to one thousand times smaller than the

capacity of the main accumulator which is recharged at said pressure PR by said pressure reducer and which is connected by means of a pipe to said order-transmitting hydraulic circuit.

Compl. Specn. 24 Pages.

Drgs. 3 Sheets.

CLASS : 32 F1 & 32 F2(b).

160601

Int. Cl. : C 07 d 53/06.

PROCESS FOR THE PREPARATION OF PYRIDO [1,4] BENZODIAZEPINES.

Applicant : A. H. ROBINS COMPANY, INC., OF 1407 CUMMINGS DRIVE, RICHMOND, VIRGINIA, 23220, UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF VIRGINIA, UNITED STATES OF AMERICA.

Inventor : CHANDLER ROY TAYLOR.

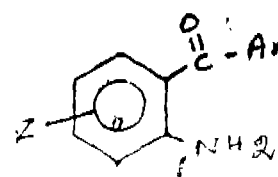
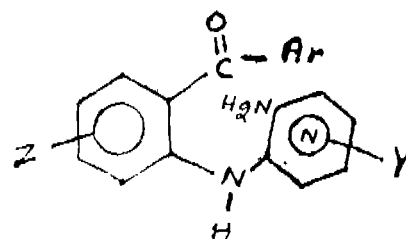
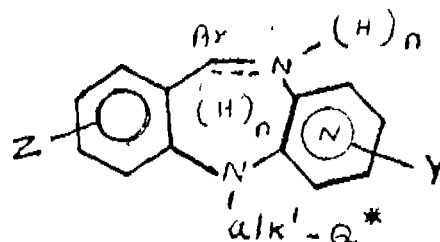
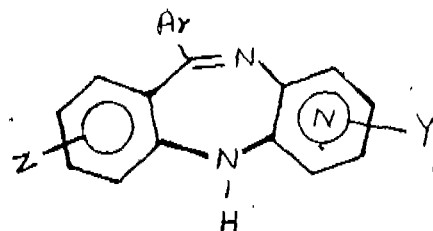
Application No. 609/Mas/84 filed August 14, 1984.

Division of Application No. 1261/Cal/81 dated 13th November, 1981 (156080).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A process for the preparation of pyrido (1,4) benzodiazepines having the formula Ib of chart I of the accompanying drawings wherein :



Ar is selected from the group consisting of 2, 3 or 4-pyridinyl, 2 or 3 thienyl, phenyl or phenyl substituted by 1 to 3 radicals selected from halo, loweralkyl, loweralkoxy, trifluoromethyl or nitro and may be the same or different;

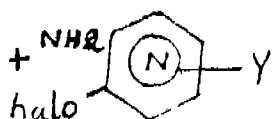
Alk¹ is a straight or branched hydrocarbon chain containing 1-8 carbon atoms;

Z is selected from the group consisting of hydrogen, halogen, loweralkyl, loweralkoxy, hydroxy or nitro;

Y is selected from the group consisting of hydrogen, or 1-2 radicals selected from loweralkyl, loweralkoxy or hydroxy and may be the same or different;

n is 0 and 1 and when n is zero the dotted line is a double bond, and the acid addition salts thereof, which comprises the steps of :

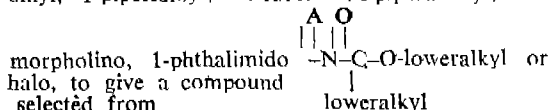
- (1) heating to a temperature of 170°C to 200°C a mixture of halo-amino pyridine having the formula IV of chart 1 of the accompanying drawings



and an (aminophenyl) aryl-methanone having the formula III of chart 1 to obtain a reaction product thereof having the formula II of chart 1 wherein Y, Z and Ar are as defined above, removing the water of the reaction under reflux in an aprotic solvent to cyclize to a pyrido (1, 4) benzodiazepine having the formula Ia of chart of the accompanying drawings

wherein Ar, Y and Z are as defined above;

- (2) reacting the said compound of formula Ia with a halo-alk¹ Q reagent wherein Q is selected from the group consisting of -N-(loweralkyl), 1-pyrrolidinyl, 1-piperidinyl, 4-substituted-piperazin-yl, 4-



those having the formula Ib of chart 1 of the accompanying drawings and converting the same to its acid addition salt by known method.

Compl. specn. 60 pages.

Dwg. 4 sheets

CLASS : 32 F2(a) & (b)

160602

Int. Cl. : C 07 c 127/12.

A PROCESS FOR THE PREPARATION OF THE BICYCLOOXYPHENYL UREAS.

Applicant : UNION CARBIDE CORPORATION. A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATE OF AMERICA.

Inventor : PAUL ALFRED CAIN.

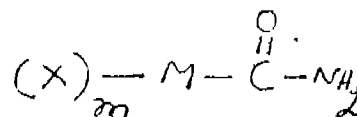
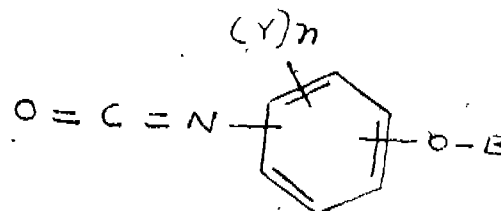
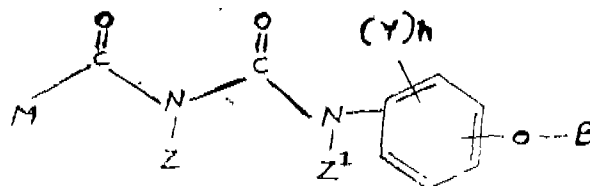
Application No. 661/Mas/84 filed August 28, 1984.

Division of application No. 1136/Cul/81 dated 15th October, 1981 (155350).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

36 Claims

A process for the preparation of the compound of the Formula I,



wherein M represents a monocyclic aromatic ring system or a monocyclic heterocyclic ring system containing up to 2 nitrogen atoms, and wherein the ring contain up to four X substituents wherein each X individually is halogen, nitro, cyano, or alkyl, polyhaloalkyl, alkoxy or polyhaloalkoxy of from 1 to 3 carbon atoms;

Z and Z¹ individually are hydrogen;

Y individually represents halogen, or alkyl, polyhaloalkyl, alkoxy or polyhaloalkoxy of from 1 to 3 carbon atoms, and n has a value of from 0 to 4;

B is a bicyclic fused ring system which is attached to the oxygen through a carbocyclic ring and wherein (a) at least one ring is a six-membered, un-saturated carbocyclic ring which contain up to two R and R¹ substituents wherein R and R¹ is halogen, nitro, cyano, amino, formamido, formamidino, phenylsulfonyl, phenylsulfinyl, phenylsulfonyl, phenylsulfonamide wherein the phenyl ring optionally may be substituted with one or more halogen, nitro, or alkyl, polyhaloalkyl, alkoxy or polyhaloalkoxy of from 1 to 3 carbon atoms, or R and R¹ individually are alkyl, alkoxy, polyhaloalkyl, polyhaloalkoxy, alkenyloxy, polyhaloalkenyloxy, alkynyloxy, polyhaloalkynyloxy, alkylsulfonyl, polyhaloalkyl sulfonyl, alkylsulfinyl, polyhaloalkylsulfinyl, alkylsulfonyl, polyhalo-alkylsulfonyl, mono or di-alkylsulfamido, cyano, or alkyl, polyhaloalkyl, alkoxy, polyhaloalkoxy, mono-or di-alkylamino, alkylcarbonylamino, alkoxy carbonyl-amino mono-or di-alkylaminocarbonyloxy of up to 6 carbon atoms, and (b) the second ring, hereinafter also referred to as A, when it is not a five or six-membered carbocyclic is a five or six-membered saturated or unsaturated hetero-cyclic ring which contain in any combination carbonyl or one or two oxygen or sulfur, and up to two R² and R³ substituents attached to unsaturated ring carbon atoms wherein R² and R³ individually is halogen, nitro, cyano, or alkyl, polyhaloalkyl, alkoxy, polyhaloalkoxy, alkylthio, arylthio, alkylsulfinyl, alkylthio, arylthio, alkylsulfonyl, arylsulfonyl, alkylsulfamido, arylsulfamido, alkoxy carbonylamino, or alkylcarbonylamino of from 1 to 6 carbon atoms, or contain up to two R⁴ and R⁵ substituents attached to saturated carbon atoms of the chain wherein R⁴ and R⁵ individually is alkyl or polyhaloalkyl of from 1 to 6 carbon atoms; with the proviso that when B is a naphthyl

group attached through an oxygen to the number 4 carbon atom of the phenyl group, then (a) if X is halogen and is mono or disubstituted in the ortho position of a benzoyl ring (b) R² and R³ are hydrogen and (c) if Y represents a halogen substituted at the number three carbon atom of the phenyl ring, or if such carbon atom contains only hydrogen, then R and R¹ can not both be hydrogen or halogen or a combination of hydrogen and halogen, which comprises :

reacting an amide of the formula LI of the drawings with an isocyanate of the formula LII of the drawings

wherein X, Y, m, n, and B have the same meaning as given above and thereafter recovering the compound of formula I by filtration.

Compl. specn. 85 pages.

Drg. 7 sheets

CLASS : 32 f 2 (b).

160603.

Int. Cl. : C 07 d 57/38.

A PROCESS FOR THE PREPARATION OF 9-(1, 3-DIHYDROXY-2-PROPOXYMETHYL) GUANINE AND PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF.

Applicant : SYNTEX (U.S.A.) INC., OF 3401 HILLVIEW AVENUE, PALO ALTO, CALIFORNIA 94304, UNITED STATES OF AMERICA, A CORPORATION INCORPORATED IN THE UNITED STATES OF AMERICA.

Inventors : (1) JULIEN PIERRE VERHEYDEN AND (2) JOHN CHARLES MARTIN.

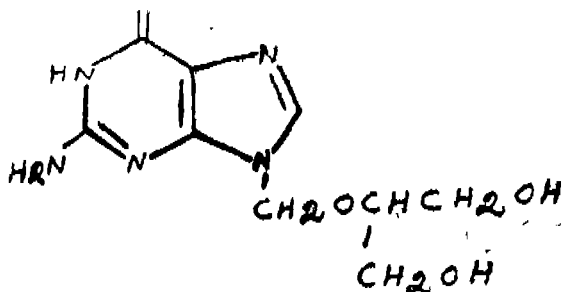
Application No. 746/Mas/84 filed October 1, 1984.

Division of Application No. 564/Cal/82 dated 20th May, 1982.

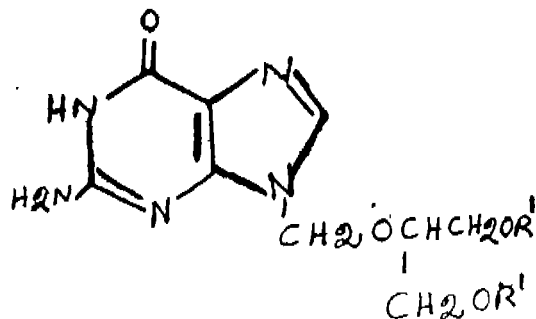
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

A process for preparing 9-(1, 3-dihydroxy-2-propoxymethyl) guanine of formula (I)



of the accompanying drawings and the pharmaceutically acceptable salts thereof which comprises :



(a) deprotecting by known means a compound of the formula (II)

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of the accompanying drawings, wherein R¹ is defined as a protecting group such as benzyl optionally substituted with 1 or 2 alkoxy groups, where alkoxy is as herein defined, preferably methoxy, or lower alkoxy groups, where alkyl is defined as a straight or branched chain hydrocarbon of one to four carbon atoms, to 9-(1, 3-dihydroxy-2-propoxymethyl) guanine or its salts,

(b) converting in a known manner if desired the said 9-(1, 3-dihydroxy-2-propoxymethyl) guanine or its salts to a pharmaceutically acceptable salt,

(c) if desired converting in a known manner the said salt of 9-(1, 3-dihydroxy-2-propoxymethyl) guanine to 9-(1, 3-dihydroxy-2-propoxymethyl) guanine.

Complete Specn. 18 pages.

Drgs. 2 sheets.

CLASS : 32 F2 (b).

160604

Int. Cl. : C 07 d 57/38.

A PROCESS FOR PREPARATION OF 9-(1, 3-DIHYDROXY-2-PROPOXYMETHYL) GUANINE AND PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF.

Applicant : SYNTEX (U.S.A.) INC., OF 3407 HILLVIEW AVENUE, PALO ALTO, CALIFORNIA 94304, UNITED STATES OF AMERICA A CORPORATION INCORPORATED IN THE UNITED STATES OF AMERICA.

Inventors : (1) JULIEN PIERRE VERHEYDEN AND (2) JOHN CHARLES MARTIN.

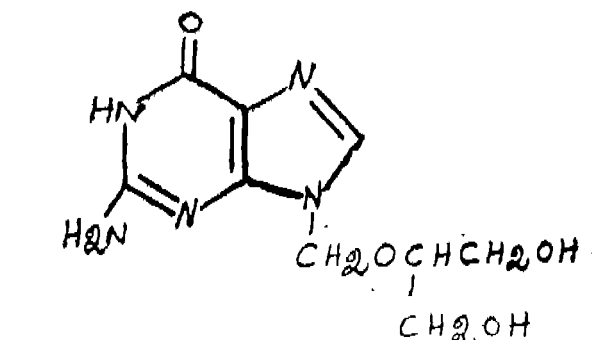
Application No. 747/Mas/84 filed October 1, 1984.

Division of Application No. 564/Cal/82 dated 20th May, 1982 (156469).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

1 Claim.

A process for preparing 9-(1, 3-dihydroxy-2-propoxymethyl) guanine and the pharmaceutically acceptable salts thereof which comprises :



(a) deprotecting and hydrolyzing as described herein a compound of the formula IA of the drawings wherein R is defined as an acyl group, R'CO, wherein R' is a straight or branched hydrocarbon chain of one to ten carbon atoms such as, methyl, ethyl, i-propyl, n-propyl, n-butyl, i-butyl, t-butyl, n-hexyl, i-hexyl, n-octyl, i-octyl, n-nonyl, i-nonyl, n-decyl, i-decyl, and R' is defined as a protecting group such as benzyl optionally substituted with 1 or 2 alkoxy groups for example benzyl, alkoxybenzyl, dialkoxybenzyl, alkylbenzyl, dialkylbenzyl, where alkyl is defined as a straight or branched chain hydrocarbon of one to four carbon atoms for example methyl, ethyl, n-propyl, i-propyl, n-butyl, i-butyl, t-butyl, preferably methyl, to afford 9-(1, 3-dihydroxy-2-propoxymethyl) guanine or its salts,

(b) optionally converting in a known manner the said 9-(1, 3-dihydroxy-2-propoxymethyl) guanine or its salts to pharmaceutically acceptable salt, and if necessary.

(c) convering in a known manner the said salt of 9-(1, 3-dihydroxy-2-propoxymethyl) guanine to 9-(1, 3-dihydroxy-2-propoxymethyl) guanine.

Complete Specn. 16 pages.

Drgs. 2 sheets.

CLASS : 32 F 2 (b) & 55 E 1, 55 E 4.

160605.

Int. Cl. : A 61 k 23/00 & C 07 d 37/00.

A PROCESS FOR THE PREPARATION OF N²-SUBSTITUTED 9-(1, 3-DIHYDROXY-2-PROPOXYMETHYL) GUANINES AND PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF.

Applicant : SYNTEX (U.S.A.) INC. OF 3401 HILLVIEW AVENUE, PALO ALTO, CALIFORNIA 94304, UNITED STATES OF AMERICA, A CORPORATION INCORPORATED IN THE UNITED STATES OF AMERICA.

Inventors : JULIEN PIERRE VERHEYDEN. 2. JOHN CHARLES MARTIN

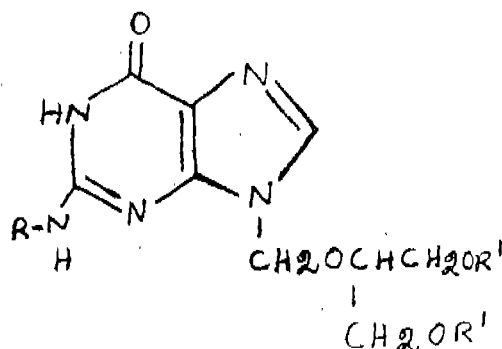
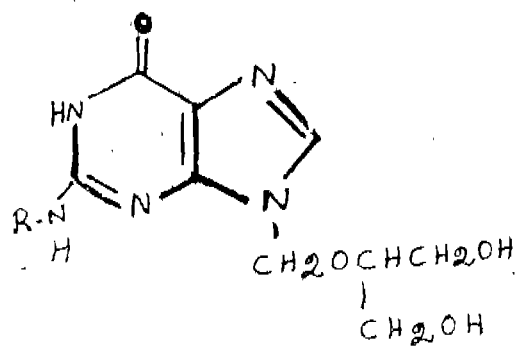
Application No. 748/Mas/84 filed on 1st October 1984.

Division of Application No. 564/Cal/82 dated 20th May 1982 (156469)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

A process for the preparation of N²-substituted 9-(1, 3-dihydroxy-2-propoxymethyl) guanines of the formula IX of the accompany drawings



and its pharmaceutically acceptable salts thereof wherein R is an acyl group, R''C, wherein R'' is a straight or branched hydrocarbon chain of one to ten carbon atoms which comprises;

deprotecting as herein described a compound of the formula VIII of the accompanying drawings.

wherein R is as hereinabove defined and R' is a protecting group such as benzyl optionally substituted with 1 or 2 alkoxy groups, or lower alkyl groups wherein alkyl is defined as a straight or branched hydrocarbon chain of one to four carbon atoms with a compound such as a Lewis Acid and if desired converting the result compound into its pharmaceutically acceptable salts thereof in a known manner.

(Compl. Specn. 14 pages.)

(Drg. 1 sheet)

CLASS : 32 C & 55 E1.

160606.

Int. Cl. : C 12 d 13/06.

METHOD FOR THE MANUFACTURE OF AN ANTI-TUMOR PROTEINACEOUS SUBSTANCE.

Applicant : KYORIN PHARMACEUTICAL CO. LTD., OF NO. 5, KANDA SURUGADAI 2-CHOME, CHYODAKU, TOKYO, JAPAN.

Inventors : TSUTOMU TRIKURA, KOICHI TAKAGI, JIRO HOSOMI, SATOSHI MURAYAMA, KOJI SAITO, TAKASHI OKAZAKI.

Application No. 890/Mas/84 filed 19th November 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims.

A method for the manufacture of a proteinaceous substance having the following biochemical characteristics :

- (A) a strong cytolytic activity against mouse tumor cells L-129, but no cytotoxic activity for normal cells such as human fetus fibroblasts, human adult skin fibroblasts and chinese hamster fibroblasts (Don, V-79), and therefore a high tumor specificity;
- (B) a strong anti-tumor and immunogenic activity against Meth-A sarcoma;
- (C) no pyrogenetic action after intravenous injection to rabbits;
- (D) a molecular weight of 45,000 \pm 5,000 (determined by the gel filtration method using Sephacryl S-200); and
- (E) an isoelectric point pI of 4.8 \pm 0.3;

Characterized in that histocyte-type cells showing phagocytic action are allowed to proliferate in a complete growth medium containing calf fetal serum among mammalian tumor cultured cells, said histocyte cells are then cultured in a serum free medium, the supernatant liquid thus obtained is precipitated with ammonium sulfate and submitted to gel filtration and is further fractionated by known methods to obtain the proteinaceous substance which if desired is further purified by high performance liquid chromatography.

(Compl. Specn. 28 pages)

(Drg. 4 sheets)

CLASS : 32 F 2 b.

160607.

Int. Cl. : C 07 d 53/06, 57/00.

PROCESS FOR PREPARATION OF PYRIDO [1, 4] BENZO-DIAZEPINES.

Applicant : A. H. ROBINS COMPANY, INCORPORATED, OF 1407 CUMMINGS DRIVE, RICHMOND, VIRGINIA, 2322 UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF VIRGINIA, UNITED STATES OF AMERICA.

Inventors : YOUNG SEK LO. 2. HANDLER ROY TAYLOR.

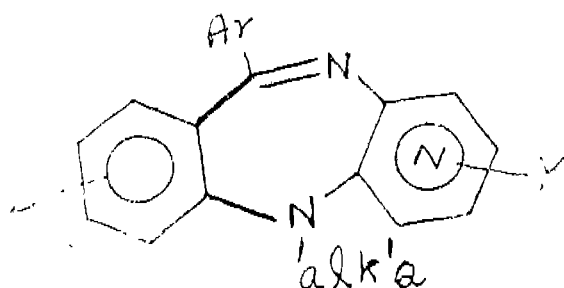
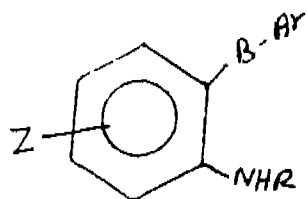
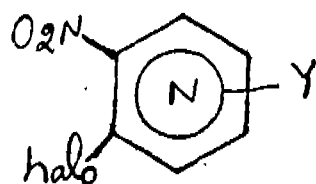
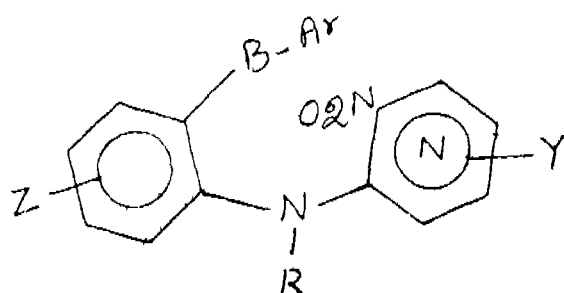
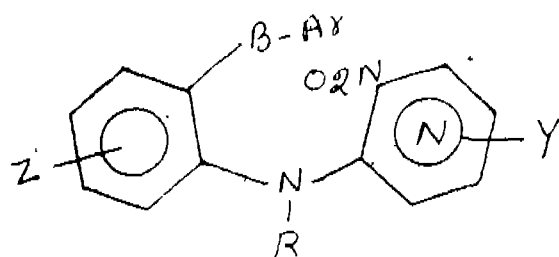
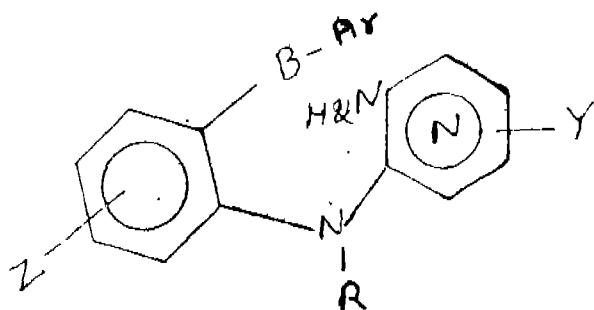
Application for Patent No. 963/Mas/84 dated 7th December 84.

Division of Application No. 1443/Cal/82 dated 14th December 1982 No. 156482.

Appropriate office for opposition proceedings (Rule 5, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

A process for the preparation of pyridine [1, 4] benzodiazepines of the formula X shown in the accompanying drawings



wherein alk¹ is a straight or branched hydrocarbon chain containing 1-8 carbons; Q is selected from the group consisting of hydrogen, halogen or —NR², R¹ and R² are selected from the group consisting of loweralkyl, —C(=O)—O—loweralkyl or R¹ and R² taken together with the adjacent nitrogen atom may form a heterocyclic residue selected from 1-phthalimide, 1-pyrrolidinyl, 1-piperidinyl, 4-morpholinyl, 1-piperazinyl and 4-substituted-1-piperazinyl;

Ar is selected from the group consisting of 2 or 3-thienyl, 2, 3 or 4-pyridinyl, phenyl or phenyl substituted by 1 to 3 radicals selected from halo, loweralkyl, loweralkoxy trifluoromethyl or nitro which may be the same or different;

Y is selected from the group consisting of hydrogen, or 1-2 radicals selected from lower alkyl hydroxy or lower-alkoxy and may be the same different; Z is selected from the group consisting of hydrogen halogen, loweralkyl, hydroxy, lower-alkoxy or nitro, which comprises the steps of-step 1) reacting a compound of the formula IV shown in the drawings

wherein Ar and Z are as defined above with a halo-nitro-pyridine having the formula III of the drawings

to give a compound having the formula Ic of the drawings

wherein Ar, Y and Z are as defined above; R is hydrogen, and B is selected from the group consisting of carbonyl, thioxomethyl, ketal or thioketal, Step 2 reacting a compound obtained in step 1 with a reagent having the formula; Q-alk¹ halo wherein Q is selected from the group consisting of hydrogen, halogen or —NR²R³, R¹ and R² being as defined above to produce a compound having the formula Ib of the drawings, wherein R is —alk¹—Q; and

Ar, B, Y, Z, alk¹ and Q are as defined above; Step 3) reducing in a known manner the nitro group of a compound of formula Ib prepared in step 2 (R=—alk¹—Q) to produce a compound having the formula Ia of the drawing, wherein Ar, B, Y, and Z are as defined above;

Step 3) reducing in a known manner the nitro group of a compound of formula Ib prepared in step 2 (R=—alk¹—Q) to produce a compound having the formula Ia of the drawings, wherein Ar, B, Y, and are as defined above;

R is —alk¹—Q;

alk¹ is as defined above;

Q is selected from hydrogen, NR²R³ or halo; and R¹ and R² being as defined above;

Step 4) cyclizing by a known manner the compound obtained in step 3 to produce a compound having the formula X,

wherein Ar, Y, Z and R are defined above.

Compl. specn. 58 pages.

Drgs. 6 sheets

CLASS : 32 F 2 b

160608

Int. Cl. : C 07 c 85/04, 87/48 & C 07 d 31/24.

"A PROCESS FOR PREPARATION OF NOVAL [2-[(AMINO-PYRIDINYL) AMINO] PHENYL] ARYL-METHANONE AND ANALOGS THEREOF".

Applicant : A.H. ROBINS COMPANY, INCORPORATED, OF 1407 CUMMINGS DRIVE, RICHMOND, VIRGINIA 23220, UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF VIRGINIA, UNITED STATES OF AMERICA.

Inventors : YOUNG SEK LO, 2. CHANDLER ROY TAYLOR, JR.

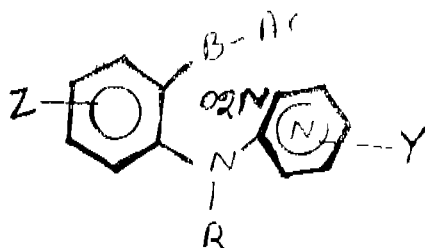
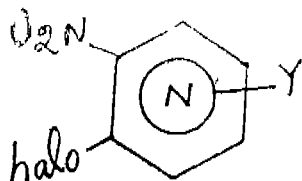
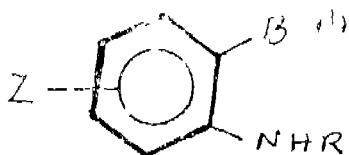
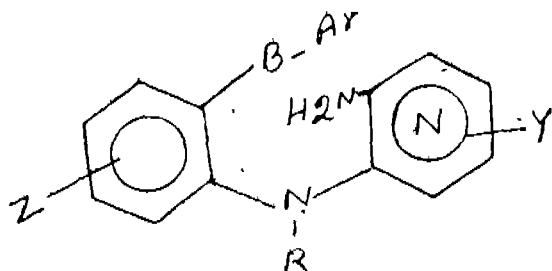
Application for patent No. 964/Mas/84 filed on 7 December 1984.

Division of Application No. 1443/Cal/82 dated 14th December 82. (156482).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Madras Branch.

2 Claims

A process for the preparation of [2-(amino-pyridinyl) amino]phenyl arylmethanones and analogs of the formula II shown in the accompanying drawings,



wherein: R is alk^1Q ; wherein Q is selected from the group consisting of hydrogen, $-\text{NR}^1\text{R}^2$ or halogen; R^1 and R^2 are selected from the group consisting of loweralkyl $-\text{C}(=\text{O})-\text{O}$ -loweralkyl or R^1 and R^2 taken together with the adjacent nitrogen atom may form a heterocyclic residue selected from 1-phthalimide, 1-pyrrolidinyl, 1-piperidinyl, 4-morpholinyl, 1-piperazinyl and 4-substituted-1-piperazinyl;

alk^1 is a straight or branched hydrocarbon chain containing 1-8 carbons B is selected from the group consisting of carbonyl, thioxomethyl, ketal or thioketal,

Ar is selected from the group consisting of 2 or 3-thienyl, 2, 3 or 4-pyridinyl, phenyl or phenyl substituted by 1 to 3 radicals selected from halo, loweralkyl, loweralkoxy, trifluoromethyl or nitro which may be the same or different; Y is selected from the group consisting of hydrogen or 1-2 radicals selected from loweralkyl, hydroxy or loweralkoxy and may be the same or different;

Z is selected from the group consisting of hydrogen, halogen loweralkyl, hydroxy, loweralkoxy or nitro, which comprises the steps of

step 1) reacting a compound of the formula IV with a halo-nitropyridine of the formula III at a temperature

from 110 - 160°C to give a compound of the formula I

wherein Ar, Y and Z are as defined above; R is hydrogen; and B is selected from the group consisting of carbonyl thioyl, ketal or thioketal;

step 2) reacting the compound of formula I obtained with a reagent of the formula :

$\text{Q-alk}^1\text{-halo}$

wherein Q is selected from the group consisting of hydrogen, halogen or $-\text{NR}^1\text{R}^2$, R^1 and R^2 being as defined above in the presence of an aqueous metal base, an organic solvent and a phase transfer catalyst, and making the pH slightly basic when the reaction is complete; and,

step 3) reducing the nitro group of the compound obtained in step 2) to an amino group in a conventional manner to produce the desired compound of formula II.

Compl. specn. 56 pages.

Drgs. 6 sheets

CLASS : 32 F2 (b)

160609

Int. Cl. : C 07 c 85/04, 87/48; C 07 d 31/24

PROCESS FOR PREPARATION OF NOVEL [2-(AMINOPYRIDINYL) AMINO] PHENYL] ARYLMETHANONE AND ANALOGS THEREOF.

Applicant : A.H. ROBINS COMPANY, INCORPORATED, OF 1407 CUMMINGS DRIVE, RICHMOND, VIRGINIA 23220, UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF VIRGINIA, UNITED STATES OF AMERICA.

Inventors : (1) YOUNG SEK LO AND (2) CHANDLER ROY TAYLOR.

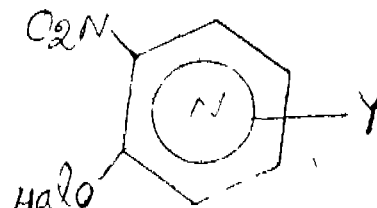
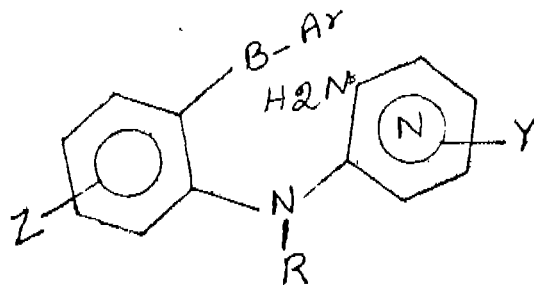
Application No. 993/MAS/84 filed December 15, 1984.

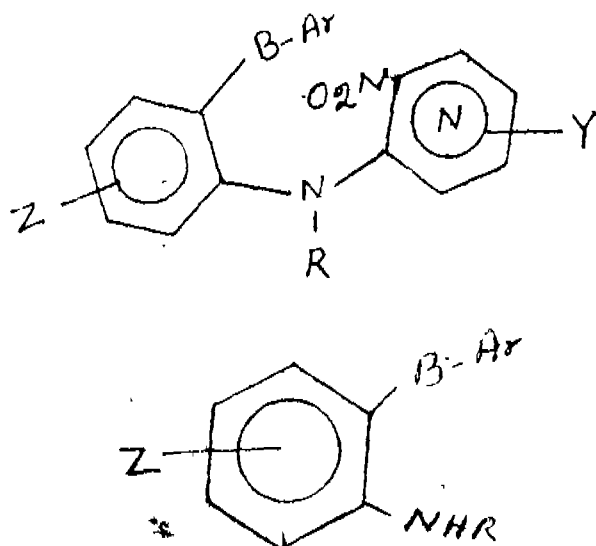
Division of Application No. 1443/CAL/82 dated 14th December, 1982. (156482).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Madras Branch.

1 Claim

A process for the preparation of [2-(amino-pyridinyl) amino]phenyl arylmethanones and analogs of the formula II shown in the accompanying drawings, wherein;





B is selected from the group consisting of carbonyl, thio-methyl, ketal or thioketal;

Ar is selected from the group consisting of 2 or 3-thienyl, 2, 3 or 4-pyridinyl, phenyl or phenyl substituted by 1 to 3 radicals selected from halo, loweralkyl, loweralkoxy, trifluoromethyl or nitro which may be the same or different;

Y is selected from the group consisting of hydrogen or 1-2 radicals selected from loweralkyl, hydroxy or loweralkoxy, and may be the same or different;

Z is selected from the group consisting of hydrogen, halogen loweralkyl, hydroxy, loweralkoxy or nitro, which comprises the steps of

Step 1) reacting a compound of the formula IV of the accompanying drawings

with a halo-nitropyridine having the formula III of the accompanying drawings

at a temperature of 110 to 160°C for $\frac{1}{2}$ hour to 4 hours to give a compound having the formula I of the drawings wherein Ar, Y and Z are as defined above;

R is selected from the group consisting of methyl or ethyl; and

B is selected from the group consisting of carbonyl, thio-methyl, ketal or thioketal;

Step 2) reducing in a known manner the nitro group of a compound prepared in step 1 to an amino group.

Compl. specn. 57 pages.

Drgs. 6 sheets

CLASS : 32 F 2 a, 32 F 2 b

160610

Int. Cl. : C 07 c 127/13.

"A PROCESS FOR PREPARING N-(ARYLTHIOALYL)-N'-(AMINOALKYL) UREAS.

Applicant : A. H. ROBINS COMPANY, INCORPORATED, OF 1407 CUMMINGS DRIVE, RICHMOND, VIRGINIA 23220, UNITED STATES OF AMERICA, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATES OF VIRGINIA, UNITED STATES OF AMERICA.

Inventors : JAMES ROBERT SHANKLIN, JR. 2. CHRISTOPHER PETER JOHANSON, III.

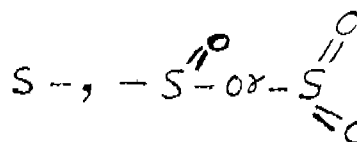
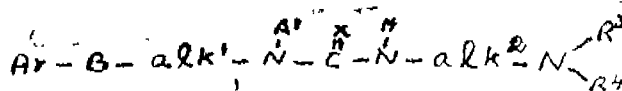
Application for Patent No. 1000/Mas/84, filed on 17th December, 1984.

Division of Application No. 557/Cal/82 filed on 18th May 1982. (155992).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972). Patent Office, Madras Branch.

6 Claims

A process for preparing N-(arylthioalkyl)-N'-(aminoalkyl) ureas of formula Ib shown in the accompanying drawings,



wherein Ar is selected from the group consisting of 1- and 2-naphthyl, 2, 3-dihydro-1H-inden-4(or 5)yl, 2-furanyl, phenyl or phenyl substituted by 1-3 radicals which may be the same or different selected from the group consisting of loweralkyl, loweralkoxy, halogen trifluoromethyl, nitro, cyano, or a group of formula shown in Fig. 1 of the drawings,

wherein R⁵ and R⁶ are selected from hydrogen or loweralkyl, R is selected from the group consisting of hydrogen, loweralkyl, cycloalkyl, phenyl or phenyl-loweralkyl wherein phenyl may be substituted by halogen, loweralkyl or loweralkoxy, X is selected from oxygen or sulfur, B is selected from the group consisting of those shown in Fig. 9 of the drawings, R⁵ and R⁶ are selected from the group consisting of loweralkyl, phenyl and phenyl-loweralkyl wherein phenyl may be substituted by halogen, loweralkyl, loweralkoxy and may be the same or different, or R³ and R⁴ taken together with the adjacent nitrogen form a pyrrolidine, piperidine, piperazine, 4-loweralkyl piperazine or morpholine group, alk¹ and alk² are selected from the group consisting of loweralkylene or loweralkylene-loweralkyl and may be the same or different, or a pharmaceutically acceptable addition salt or hydrates thereof, comprises reacting a compound of formula II b

H₂N-alk³-NR⁵R⁶.....II b
wherein alk³, R⁵ and R⁶ are as defined above with 1, 1'-carbonyl-diimidazole or 1, 1'-thiocarbonyldiimidazole and a compound of formula IV a.

Ar-B-alk¹-NHR¹.....IV a
wherein Ar, B, alk¹ and R¹ are as defined above; or if required converting the compound of formula Ib into a pharmaceutically acceptable salt by known methods.

Compl. Specn. 60 pages.

Drgs. 2 sheets

Int. Cl. : 116 H [XLIX].

160611

Int. Cl. : B 66 d - 1/20, 1/50.

Title : A NOVEL SHEAVE UNIT.

Applicants : KRISHNA KUMAR RAI, 4 MIG ENCLAVE, HAL COLONY, CIDCO, NASIK-422 009, MAHARASHTRA, INDIA.

Application No. 23/BOM/1985 filed on January 21, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

3 Claims

A novel sheave unit comprising a sheave provided with a circumferential groove, said sheave being mounted on the output shaft of a gear box, the input shaft of said gear box being coupled to the output shaft of a prime mover such as electric motor, said gear box and prime mover being mounted on a base frame or said sheave being alternatively mounted on a shaft which is coupled to the output shaft of said gear box and rotatably supported on said base frame; and a wire rope gripping cum hauling in cum paying out pressure roller assembly comprising a U-shaped or arch shaped frame disposed over said sheave, and a plurality of rollers spaced apart and supported on said U-shaped or arch shaped frame radially with respect to said sheave and with a uniform clearance between the circumferences of said sheave, and the circumference of each of said rollers, said rollers covering a sector or segment of said sheave, each of said rollers being rotatable on an axis parallel to the axis of rotation of said sheave and provided with circumferential groove corresponding to the circumferential groove of said sheave, the circumferential groove of each of said rollers confronting the circumferential groove of said sheave, a wire rope held or engaged within and between the circumferential grooves of said sheave and rollers, while said sheave rotates with said wire rope each of said rollers starting from entry point of said wire rope into said sector or segment till the exit point of said wire rope from said sector or segment continuously grips and hauls in said wire rope and simultaneously progressively continuously pays out said wire rope thereby pulling, lifting or moving a load connected to one end or both ends of said wire rope.

Compl. specn. 11 pages.

Drgs. 3 sheets

Int. Cl. : 14 A₂, 70B.

160612

Int. Cl. : B 01 k-3/02, G 01 n-27/30.

A METHOD FOR THE MANUFACTURE OF SULPHIDE ION SENSITIVE FOR SELECTIVE SILVER SULPHIDE ELECTRODE.

Applicants : BHABHA ATOMIC RESEARCH CENTRE, TROMBAY, BOMBAY-400 085, MAHARASHTRA, INDIA. A SCIENTIFIC INSTITUTION OF THE DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA.

Inventors : 1. PRABHAT RANJAN SINGH AND
2. KRISHNANAND BABU GAONKAR.

Application No. 49/BOM/1985 filed on 19th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay.

8 Claims

A method for the manufacture of a sulphide ion sensitive or selective silver sulphide electrode, said method comprising the following steps :

a. preparing silver sulphide precipitate by reacting an aqueous solution of silver nitrate with an aqueous solution of a soluble metal sulphide such as herein described under vigorous stirring;

b. ageing said precipitate by leaving said precipitate in the reaction mixture of said aqueous solution of silver nitrate and said aqueous solution of soluble metal sulphide for 20 to 24 hours;

c. filtering and drying said precipitate;

(d) compacting the resulting powder into a pellet and bonding said pellet partly with a silver metal foil/layer;

(e) soldering one end of an insulated leadwire to said silver metal foil/layer.

(f) embedding the resulting assembly in a mass of chemically inert and electrically non-conducting material such as herein described such that unbonded surface of said pellet is fully or partially exposed and the free end of said lead wire is exposed, said embedding being carried out by placing said pellet on a support with its bonded surface directed upwards supporting a tube vertically with its one open end resting on said support over said pellet, the other end of said lead wire being taken out through the other open end of said tube, filling a paste of chemically inert and electrically non-conducting material such as herein described in said tube through its said other open end and removing said tube after said paste is set to form a mass thereof;

(g) polishing the exposed unbonded surface of said pellet by using abrasive paper and drying paper, and

(h) cleaning the exposed unbonded surface of said pellet by washing with an inert solvent such as herein described.

Compl. Specn. 12 pages.

Drgs. 3 sheets.

Int. Cl. : 127 C [LXV(1)].

160613

Int. Cl. F 16 g 5/14.

AN ENDLESS TRANSMISSION BELT PRODUCED FROM A REINFORCED OPEN ENDED BELTS AND METHOD OF PRODUCING SUCH ENDLESS TRANSMISSION BELTS.

Applicants : VOLTA POWER BELTING LTD., 6, MATITYAHU STREET, B' NAI BRAK, ISRAEL.

Inventors : GIDEON PINTO & JONATHAN SCHANIN.

Application No. 64/BOM/1985 filed March 6, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

17 Claims

And endless transmission belt comprising an open-ended belt of indeterminate length, made of a thermoplastic elastomer and having at least one reinforcing means extending through the entire length thereof said belt being adapted to be cut to a required length and to have its two ends connected in a permanent joint, to form the endless transmission belt, and joining means to produce said permanent joint, characterized in that said joining means is at least one elongated splicing member made of a thermoplastic elastomer and having at least one reinforcing means extending through at least a major portion of the length thereof, said reinforcing means of said splicing member is provided with a pull-out resistant means, at least a portion of said splicing member is introduced in a direction substantially parallel to the longitudinal axis of said belt into at least one recessed zone of limited longitudinal extent provided in both end portions of said belt, and is permanently bonded to said belt, and when said splicing member is thus introduced into, and bonded to, said belt, the reinforcing means of said splicing member are substantially co-planar with the reinforcing means of said belt.

Complete Specification 15 pages.

Drawings 3 sheets.

Int. Cl. : 49 H, 195 G.

160614

Int. Cl. : A 47j—27/09, F 16 k—17/00.

AN IMPROVED SAFETY DEVICE FOR PRESSURE COOKER.

Applicant & Inventor : SUNIL CHETAN THADANI, AN INDIAN NATIONAL OF C/O EVERGREEN TRADES AND AGENCIES, 36 MAHAL INDUSTRIAL ESTATE, MAHAKALI CAVES ROAD, ANDHERI (EAST), BOMBAY-400 093, MAHARASHTRA, INDIA.

CLASS : 80 A+K

160616

Int. Cl. : B01 d—23/00, 29/00.

AN ELECTRIC WATER FILTER FOR OBTAINING PURE DRINKING WATER.

Applicant & Inventor : SUNIL CHETAN THADANI, AN INDIAN NATIONAL OF C/O EVERGREEN TRADES AND AGENCIES, 36, MAHAL INDUSTRIAL ESTATE, MAHAKALI ROAD, ANDHERI EAST, BOMBAY, MAHARASHTRA, INDIA.

Application No. 128/Bom/85 filed on May 13, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

3 Claims

An improved safety device for pressure cooker for fixing on its lid comprising of a housing, a nipple a plunger and a spring of which the housing is a cylindrical or hexagonal or square section body closed at the top with an axial hole therein and internally threaded at the bottom open end and also having a number of radial holes on the side/s of the housing near the top; the nipple is a body for fixing at the threaded end of the housing and provided with a through stepped hole which is wider at its open end; the plunger is the valve having a long stem and a flanged conical head and which is mounted inside the housing and the back of the flanged conical head and compressed by fitting therein by the said nipple.

Compl. specn. 5 pages.

Drg. 1 sheet

CLASS : 54 + 55E.

160615

Int. Cl. : A61K—27/14.

AN IMPROVED AND MODERN PROCESS FOR PREPARING THERAPEUTICALLY ACTIVE AND CLINICALLY EFFICACIOUS AYURVEDIC MEDICINAL PLANT-BASED AYURVEDIC MEDICINAL LIQUEURS (AYURVEDIYA AUSHADHI MADHYA).

Applicants : SMT. SHILAJA RAMCHANDRA DESHMUKH AND VINAYAK SIDHESHWAR CHITRAO ACTING AS TRUSTEES, SHRI AMRITESHWAR PHARMA RESEARCH FOUNDATION, 1206-A/45, JANGALI MAHARAJ ROAD, POONA-411 004, MAHARASHTRA, INDIA.

Application No. 75/Bom/1985 filed March 25, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

5 Claims

An improved and modern process of preparing therapeutically active and clinically efficacious Ayurvedic medicinal plant-based AYURVEDIC MEDICINAL LIQUEURS (Ayurvediya Aushadhi Madya), which consists of the following steps :

- (A) BEATING AND PULVERISING of individual Ayurvedic medicinal plant constituent;
- (B) Preparing AQUEOUS EXTRACT of above by soaking the plant constituent in cold water in the ratio 1 : 8, for 24 hours;
- (C) Preparing CONCENTRATED AQUEOUS EXTRACT of above by steam distillation at 100°C., and filtering the same by modern filtration equipment;
- (D) Preparing the SELF-GENERATED ALCOHOLIC EXTRACT from above by curing the same with Ayurvedic fermenting agent viz. Moha flower extract, for 14 days;
- (E) Preparing the CONCENTRATED SELF-GENERATED ALCOHOLIC EXTRACT of above by vacuum distillation of the same at 80°C;
- (F) Preparing the perfectly blended and THERAPEUTICALLY ENRICHED (ANUPANITA) AYURVEDIC MEDICINAL LIQUEUR from above by soaking the same with equivalent quantity of Alcohol prepared from 'Ikshu Rasa' (sugar cane juice) for 14 days, and further enriching the same with Ayurvedic appetizing medicinal plant constituents like Cardamum, Kesar and Jayapatri.

Comp. specn. 18 pages.

Drg. Nil

Compl. specn. 6 pages.

Drg. 3 sheets

CLASS : 104 D

160617

Int. Cl. : 129 G.

A PROCESS FOR RECLAIMING OF STEEL BEAD WIRE FROM WASTE OR SCRAPPED VEHICLE TYRES FOR USING SUCH RECLAIMED STEEL BEAD WIRE IN THE MANUFACTURE OF NEW TYRES FOR CYCLES/MOTOR CYCLES/MOPEDS/AND/OR TWO OR THREE WHEELER VEHICLES.

Applicants : WAMAN GHANSHYAM DESAI & PRADIP WAMAN DESAI, LAXMI VISHNU SADAN, 1ST. FLOOR, MAHARSHI KARVE ROAD, NAUPADA, THANE-400 602, MAHARASHTRA, INDIA.

Application No. 144/Bom/1985 filed June 6, 1985.

Complete after provisional left August 28, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

2 Claims

A process for reclaiming steel bead wire from scrapped vehicle tyres for using such reclaimed bead wire in the manufacture of new tyres for cycles/motor cycles/scooters/mopeds and the like 2- or 3- wheeler vehicles comprises of the following steps wherein :

- (i) removing in the usual manner bead wire from scrapped vehicle tyres using conventional machines or hand tools such as rasps;
- (ii) removing the rubber adhering to bead wires of step (i) by soaking in solvents such as kerosene, petroleum, naphtha, lubricating waste oils and the like and cleaning the soaked wire by passing it through a wire drawing die of suitable size and joining the end-to-end the wire bead length by butt welding to form a continuous wire bead;
- (iii) pickling the wire bead of step (ii) in known acid bath to de-rust the bead wire;

(iv) cleaning in water the pickled butt welded bead wire of step (iii) to remove traces of acid therefrom;

(v) copper plating the cleaned bead wire of step (iv) or coating with adhesive coat of solvent solution of natural or synthetic rubber compound or passing the bead wire of step (iv) through a rubber extruder machine and coating it with suitable compound of natural or synthetic rubber;

(vi) coiling the bead wire of step (v) into bead rings having one or plurality of coils of suitable size and diameter as per the requirements of tyres for cycle/motor cycle/scooter/moped or similar 2- or 3-wheeler vehicles; and

(vii) suitably winding the ends of the coils of bead wire of step (vi) with thin gauge tensile steel wire.

Compl. specn. 5 pages.

Drg. Nil

Provisional specn. 4 pages.

Drg. Nil

IND. CL.: 151B [XL VII(2)].

160618

Int. Cl.: F 28g 3/16.

AN IMPROVED CLEANING DEVICE FOR REGENERATIVE HEAT EXCHANGERS.

Applicants: BLACKE-DURR AKTIENGESELLSCHAFT, HOMBERGER STR. 2, 4030 RATINGEN 1, WEST GERMANY.

Inventors: 1. DR. KARL-HEINZ MOHR. 2. MANFRED TRATZ.

Application No. 152/Bom/1985, filed June 21, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

6 Claims

An improved device for cleaning the heat-exchanging surfaces of a storage medium of a regenerative heat exchanger comprising a rotatably driven hood; the said device utilizes cleaning fluid which is discharged from at least one spray nozzle essentially parallel to the planes of said heat-exchanging surfaces; said spray nozzle is movable relative to said storage medium; an at least two-part, telescopic nozzle holder; mounted on said hood of said heat exchanger; and said spray nozzle being disposed at one end of said nozzle holder; and a transfer mechanism connected to a source of said cleaning fluid and to said supply line to furnish said cleaning fluid to said nozzle holder; said transfer mechanism is disposed in the center of rotation of said hood, and includes a tubular piece, which rotates with said hood, and a stationary housing which is sealed off relative to said tubular piece and is connected to said source of cleaning fluid.

Complete specification 11 pages

Drawings 2 sheets

Ind. Cl.: 98G+E; 85 M

160619

Int. Cl.: F 28 d-19/04.

AN IMPROVED REGENERATIVE HEAT EXCHANGER.

Applicants: BLACKE-DURR AKTIENGESELLSCHAFT, HOMBERGER STR. 2, 4030 RATINGEN 1, WEST GERMANY.

Inventors: 1. WILHELM GOLLNICK. 2. DR. FRIEDRICH KLAUKE & 3. DR. KARL-HEINZ MOHR.

Application No. 153/Bom/1985 filed June 21, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

4 Claims

An improved regenerative heat exchanger having a heat-exchanging storage medium which has substantially planar end faces and is provided with a plurality of flow channels; at each end there is provided a respective hood, which divides said storage medium by means of radial first sealing means into at least one portion which receives heat-emitting gases, and at least one portion which receives heat-absorbing gases, with said portions, as a result of a continual relative rotation between said storage medium and said hoods, alternatively receiving said two types of gases; second sealing means are disposed along the periphery between said hoods and a housing which accommodates said storage medium; the said radial first sealing means comprise sealing strips which rest yieldingly directly against the respective planar end face of said storage medium; the each of said sealing strips is provided with a sealing element of a material which is softer than the material of said storage medium; and in which each of said sealing strips is provided with spring means for yieldingly pressing said sealing element against said storage medium.

Complete Specification 11 pages.

Drawings 3 sheets.

Ind. Cl.: 127 G, 160 A.

160620

Int. Cl.: B 62d-49/02, 63/08.

TWO SPEED LANDING GEAR FOR TRAILERS AND THE LIKE.

Applicant: MAHINDRA OWEN LIMITED, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 155 BOMBAY-PUNE ROAD, PIMPRI, PUNE-411 018, MAHARASHTRA.

Inventor: RAULF AUGUSTO NORONHA.

Application No. 201/Bom/85 filed on 2nd August, 1985.

Complete after provisional left on Sep. 2, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

7 Claims

Atwo-speed landing gear for trailers and the like comprising a pair of telescopic legs, each consisting of an inner housing working within an outer housing and coupled together by a connecting shaft connecting the two driven shafts mounted at the top of each of said outer housing and having a bevel gear pair mounted on said driven shaft driving left-hand threaded and Right-hand threaded spindles working within a corresponding Left-hand and Right-hand nuts fitted at top of inner housing forming leg. the bottom end of each of said inner housing is flared fitted with a base plate cushioned by a rubber or nylon pad and one of the said outer housing is fitted with a gear box housing having two pairs of spur gear wheel and pinton, one of which is a high-speed gear pair and the other a low-speed gear pair, the spur gear wheels being mounted on an extension of the driven shaft fitted to the outer housing having said gear box housing and the pinions being mounted on an input shaft provided in the said gear box housing and wherein the input drive for said gears is given by a manually operable collapsible crank of handle fitted to the input shaft on the gear box and two different speeds for said telescopic legs is obtained by pushing or pulling said input shaft along with crank or handle to obtain simultaneous fast or slow speed operation for said legs.

Provisional Specification 6 pages

Drawing 4 sheets

Complete Specification 6 pages

Drawing Nil

CLASS : 128 F

160621

Int. Cl. : A 61 m 1/02.

"IMPROVEMENTS IN OR RELATING TO BLOOD STORAGE CONTAINERS OR BAGS."

Applicant : SHREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCE & TECHNOLOGY, Trivandrum, 695 011, Kerala, India, an Indian Institute.

Inventors : SATYENDRANATH PAL.

Application for Patent No. 165/Mas/83 with provisional Specification filed on 29th July 1983.

Application for Patent No. 193/Mar/83, filed on 12th September 1983 (Cognated)

Complete Specification left on 15th October 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

8 Claims

A blood bag/container for storage of blood which comprises a double-bag unit, a first bag and a second bag each made up of flexible, non-toxic, transparent, and blood compatible resinous material such as herein described the said first bag and the said second bag being interconnected by means of a flexible transfer tubing, the first bag having a blood transfusion port for supplying blood from the bag, said first bag also having a second port for transferring blood from said second bag to said first bag through said transfer tubing interconnecting said bags, said second bag having a blood receiving port, a blood transfusion port and a further blood transfusion port the said blood receiving port having a blood donor tubing, the said blood donor tubing and/or said inter connecting transfer tubing having suitable clamps for adjusting or regulating the rate of flow of blood through the donor tubing and the transfer tubing.

Provisional Specification 1.6 pages.

Provisional Specification 2.7 pages.

Compl. Specn. 4 pages.

Drg. 1 sheet.

CLASS : 39 K

160622

Int. Cl. : C 01 b 25/00.

PROCESS FOR MAKING PHOSPHORUS PENTOXIDE WITH UTILIZATION OF THE REACTION HEAT.

Applicant HOECHST AKTIENGESELLSCHAFT, D 6230 FRANKFURT/MAIN 80 FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. BERNHARD KUXDORF, 2. PETER LUHR, 3. URSUS THUMMLER, 4. HUGO WERNER AND 5. WALTER KLEMM.

Application No. 268/Mas/84 April 17, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

Process for making phosphorus pentoxide by subjecting elemental yellow phosphorus to combustion with dried air inside a steel-made combustion chamber which comprises : effecting the combustion with the resultant formation of hot gaseous phosphorus pentoxide inside a combustion chamber of which the walls are arranged so as to form a cooling system with cavities therein; circulating water or a water/steam-mixture as a heat-carrier, through the cooling system till the said water/steam-mixture attained a temperature of 100 to 370°C under a pressure of 1 to 220 bars; steam formed thereby in the cooling system is taken therefrom continuously while introducing an equivalent proportion of desalted, degassed fresh water containing 0.01 mg/l

6—157 GI/87

oxygen and 0.01 to 0.5 mg/l chloride into the cooling system; passing said steam taken from the cooling system through a steam delivery pipe disposed in the upper portion of the combustion chamber to a steam separator; passing this separated steam through the delivery conduit when passing through the upper portion of the combustion chamber whereby the steam is heated to a temperature of 480 to 600°C under constant pressure to form the superheated steam, the hot gaseous phosphorus pentoxide is converted by condensation into solid phosphorus pentoxide and if desired, converted into phosphoric acid by absorption in water.

Complete specification 14 pages

Drg. 1 sheet

CLASS : 140 B2 & 27 A

160623

Int. Cl. : B 62 b 35/00.

A FLOATING MODULAR SYSTEM FOR THE OFF-SHORE STORAGE AND LOADING OF HYDROCARBONS.

Applicant : INSTITUT FRANCAISE DU PETROLE of 4, Avenue de Bois Preau 92502 Rusil Malmaison France, a French Company.

Inventors : 1. ISAAC BEHAR AND 2. HUBERT BERTHET.

Application No. 279/Mas/84 filed April 21, 1984.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office, Madras Branch.

8 Claims

A floating modular system for the offshore storage and loading of hydrocarbons comprising an assembly of cylinders disposed about the same axis and connected rigidly together, comprising :

metal storage cylinders for storing oil, this storage being effected on a water column communicating with the water surrounding the system, the level of the water in said cylinders falling or rising depending on whether said oil is stored or withdrawn, said storage cylinders being entirely below the level of the surrounding water,

metal ballast cylinders filled with oil or water or air or inert gas, and associated with known regulation means adapted to compensate for the variation in buoyancy of the system following variations of the water-oil level in said storage cylinders and metal floatation cylinders surrounded at least partially by said storage cylinders and said ballast cylinders which form an assembly of peripheral cylinders, said floatation cylinder being situated below the level of the water and the top of said cylinder emerging above the level of the water and supporting a deck or platform, said peripheral metal cylinders descending below the said floatation cylinder.

Complete Specn. 15 pages.

Drg. 6 sheets

CLASS : 50 E-1, 3, 98 I.

160624

Int. Cl. : F 25 b 17/00, 27/00.

SOLAR ENERGY REFRIGERATION DEVICE.

Applicants : JEUMONT-SCHNEIDER OF 31, 32 QUAI DE DION BOUTON, 92811 PUTEAUX CEDEX, FRANCE, OF FRENCH NATIONALITY.

Inventors : ALBERT WIART GERARD PAEYE.

Application No. 291/MAS/84 filed on 24th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

8 Claims

A refrigeration device comprising a solar collector containing a substance having a high adsorption and desorption capability, a condenser, an evaporator, a first channel including said condenser and said evaporator and having means and means for connecting said solar collector through said condenser to an input of said evaporator and, alternatively, for connecting said solar collector to an output of said evaporator, said first channel having a refrigeration fluid therein, wherein it comprises a separate second channel including a heat exchanger disposed in said substance, said second channel having means including a second fluid adapted to circulate through said heat exchanger for transferring heat between said substance and said second fluid.

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 61 H.

160625

Int. Cl. : F 26 b 7/00.

Applicant : ADNOVUM AG A SWISS COMPANY OF SEESTRASSE 100, CH-9326 HORN, SWITZERLAND.

PROCESS FOR MAKING AIR PERMEABLE SHEET WITH REDUCED LIQUID CONTENT.

Inventors : ALFRED EMIL LAUCHENAUER.

Application No. 295/MAS/84 filed on 26th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

10 Claims

A process for making air permeable sheet material with reduced liquid content comprising :

Applying to one side of the air permeable sheet material a foam containing an agent such as herein described which is capable of lowering the surface tension of said liquid allowing the foam to permeate the interstices of the sheet material either by mechanically forcing the foam thereinto or by the provision of a pressure gradient thereacross by the application of differential pressures on each side of the air permeable material, and removing residual foam from the other side of the sheet material optionally causing the decomposition of the foam in the sheet material such as herein described.

Compl. Specn. 102 pages.

Drg. Nil.

CLASS : 32 F. 3(d).

160626

Int. Cl. : C 07 c 49/68.

PROCESS FOR THE PREPARATION OF ANTHAQUINONE BY CYCLIZING ORTHO — BENZOYL BENZOIC ACID.

Applicant : ATOCHEM, OF 12—16 ALLEE DES VOSGES, 92400 COURBEVOIE, FRANCE, A FRENCH BODY CORPORATE.

Inventor : MICHEL DEVIC.

Application No. 341/MAS/84 filed on 8th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

7 Claims

A process for the preparation of anthraquinone by cyclizing ortho-benzoylbenzoic acid which comprises heating the ortho-benzoylbenzoic acid in the presence of oxygen-containing compounds of aluminium and of silicon, with sublimation of the anthraquinone formed, and subsequent condensation of the anthraquinone on to a collecting surface, characterised in

that the cyclisation of the ortho-benzoylbenzoic acid is carried out in the solid phase at atmospheric pressure and a temperature of between 300°C and 400°C in the presence of a super-active bleaching earth consisting of a clay of the bentonite type such as herein described which has been treated with a mineral acid, washed with water until it only contains an amount of the mineral acid which corresponds to 0.1% or less of hydrochloric acid and then dried at a temperature of at most 120°C the amount of super-active bleaching earth being 0.5 to 5 parts by weight per part, by weight of ortho-benzoylbenzoic acid and the duration of operation being between 5 and 120 mts.

(Complete Specification 11 Pages)

(No drawings)

CLASS : 50 B. & 50 D.

160627

Int. Cl. : F 28 d. 1/00, 5/00.

"A WATER COOLER."

Applicant and Inventors : MADHAVAN PARTHASARTHY, 12, OLD TRUNK ROAD, PALLAVARAM, MADRAS 600 043.

Application for Patent No. 360/Mas/1984 filed on 18th May 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

8 Claims

A Water Cooler comprising a hollow shell member, a passage means in surface contact with the inner wall of the said member, an inlet into and an outlet from the passage means, the outer wall of the shell member being lined with an adsorbent material, a branch pipe branching out from the said outlet for spraying the water on the said adsorbent material.

(Complete Specification 5 Pages)

(Drawing : 1 Sheet)

CLASS : 136 B

160628

Int. Cl. : B 22 d 1300

DEVICE FOR HANDLING AND POSITIONING A SOCKET CORE FOR A MACHINE FOR CENTRIFUGAL CASTING OF CAST-IRON PIPES FORMED WITH A SOCKET.

Applicant : Pont-A-Mousson S.A. OF 91, AVENUE DE LA LIBERATION, F. 54000 NANCY, FRANCE.

Inventors : (1) PIERRE FORT AND (2) MICHEL PIERREL.

Application No. 381/MAS/84 filed May 25, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

7 Claims

A device for handling and positioning a socket core for a machine for the centrifugal casting of cast-iron pipe formed with a socket, said device comprising a tilting support mounted on the end of the centrifugal casting machine, said support being tiltable about a horizontal shaft under the action of a jack supported by the machine, the support being adapted to receive means for gripping and supporting the core, and arranged to introduce the core into a centrifugal casting chill-mould of the machine when the jack causes said support to tilt, characterised in that the means for gripping and supporting the core is mounted to pivot on the support about an axis of rotation at right angles orthogonally to the said shaft under the action of a control jack, said gripping and supporting means comprises a ring pivoted directly on said support about the orthogonal axis so that the general plane of the ring always remains inclined by an acute angle with respect to the orthogonal pivot axis, and said acute angle being open to

wards the bottom when the ring and the support are lowered, in order to present the gripping and supporting means on a plane inclined substantially at the height of the operator's arms and laterally with respect to the machine.

(Complete specn. 18 pages)

(Drg. 4 sheets)

CLASS : 45 G1

160629

Int. Cl. : E 03 d 1/33

A FLUSHING CISTERN.

Applicant & Inventor : Thottappilly Perinchu George, House No. M.I.C. 38, Fort Nagar, Cochin 682 001, Kerala, India, Indian National.

Application No. 403/MAS/84 filed June 2, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

4 Claims

A flushing cistern provided with a float-valve and a communicating siphon characterised by a buoyant plunger loosely disposed within a cylinder surmounting the cistern, one end of the cylinder being open to the water in the cistern while the other end thereof is open to atmosphere and provided with a lid having an aperture for permitting air from outside the cylinder to enter therein; and a link connecting the plunger and the float-valve, the said plunger being jointed to a handle, whereby manual depression of the handle, depresses the plunger to force out the water from within the siphon and simultaneously actuate the float-valve to replenish the cistern with water.

(Complete specn. 6 pages)

(Drg. 1 sheet)

CLASS : 105 B

160630

Int. Cl. : G 01 d 7/00

A DEVICE FOR TESTING THE FUEL CONSUMPTION OF TWO WHEELER MOTOR VEHICLES.

Applicant : Carburettors Limited, 118, Mount Road, Madras-600 002, Tamil Nadu, India. A company duly organised and existing under the laws of the Union of India.

Inventors : (1) Srinivasan Govindarajan, (2) Subbaraya Udayar Selvam, and (3) Srirangam Kannian Srinivasan.

Application No. 238/MAS/83 filed December 15, 1983.

Complete specification left on 15th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Madras Branch.

3 Claims

A device for testing the fuel consumption of a two wheeler motor vehicle comprising in combination a graduated burette having an air vent, said burette being connected by an inlet pipeline to the fuel tank of the vehicle through a hand operated pump provided in the said pipeline; a first valve provided in the inlet pipeline for controlling the volume of the fuel supplied to the burette; an outlet pipeline connecting the burette and the tank to the carburettor of the vehicle; a second valve provided in the outlet pipeline, said second valve being operable (i) whenever the vehicle is not on test, to supply fuel from the tank through the outlet pipeline to the carburettor, while simultaneously shutting off fuel supply from the burette and (ii) whenever the vehicle is on test, to shut off fuel supply from the tank, while simultaneously supplying fuel from the burette through the outlet pipeline to the carburettor, thus enabling the fuel consumption to be read off from the burette.

(Provisional specification 3 pages.

Drg. 1 sheet)

Compl. Specn. 5 pages.

Drg. Nil.

CLASS : 105 B.

160631.

Int. Cl. : G 01 d 7/00.

A DEVICE FOR MEASURING THE FUEL CONSUMPTION FOR FOUR WHEELER MOTOR VEHICLES.

Applicant : CARBURETTORS LIMITED, 118, MOUNT ROAD, MADRAS-600 002, TAMIL NADU, INDIA. A COMPANY DULY ORGANISED AND EXISTING UNDER THE CLAWS OF THE UNION OF INDIA.

Inventors : (1) SRINIVASAN GOVINDARAJAN, (2) SUBBARAYA UDAYAR SELVAM AND (3) SRIRANGAM KANNIAN SRINIVASAN.

Application No. 237/Mas/83 filed December 15, 1983.

Complete Specification left on 15th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims.

A device for measuring the fuel consumption of a four wheeler motor vehicle comprising a float chamber having an inlet needle valve and a graduated burette having an air vent, the chamber and burette receiving fuel supply from an inlet pipeline coupled to the outlet of a first fuel pump; a first valve provided in the inlet pipeline for controlling the volume of fuel supplied to the burette; an outlet pipeline connecting the chamber and burette to a second fuel pump for supplying fuel therefrom to the carburettor of the vehicle; a second valve provided in the outlet pipeline, said second valve being operable (i) to supply fuel from the chamber through the outlet pipeline to the second fuel pump, while simultaneously shutting off fuel supply from the burette and (ii) to shut off fuel supply from the chamber, while simultaneously supplying fuel from the burette through the outlet pipeline to the second fuel pump.

Provl. Specn. 4 pages.

Drg. 1 sheet.

Compl. Specn. 6 pages.

Drg. 1 sheet.

CLASS : 206 E & 134 A.

160632.

Int. Cl. : G 05 d 13/00.

A SPEED LIMITER CAPABLE OF FUNCTIONING IRRESPECTIVE OF THE POLARITY CONDITION OF THE AUTOMOBILE.

Applicant : TECHMECHTRON PRIVATE LIMITED, AN INDIAN COMPANY, OF 147-B, 12TH MAIN ROAD, III BLOCK, KORAMANGALA, BANGALORE-560 034, KARNATAKA STATE, INDIA.

Inventor : RASHIDN FUTEHALLY.

Application for Patent No. 83/Mas/84, filed on 7th February 1984.

Complete Specification left on 7th May 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

A speed limiter capable of functioning irrespective of the polarity condition of the automobile to which it is connected comprising a full wave rectifier circuit the positive and negative output of which is connected respectively to the positive and negative input of a polarity sensitive speed limiter having no part of its directly connected electrically to the said automobile's electrical system, the input of the said rectifier circuit connected to the terminals of the automobile's power supply irrespective of the polarity.

Provl. Specn. 6 pages.

Drg. 1 sheet.

Compl. Specn. 7 pages.

CLASS : 24 D 1.

160633

Int. Cl. : B 60 t 13/00.

MASTER CYLINDER FOR VEHICLE BRAKING SYSTEMS.

Applicant : LUCAS INDUSTRIES, PUBLIC LIMITED COMPANY, A BRITISH COMPANY OF GREAT KING STREET, BIRMINGHAM, B 19 2XF, ENGLAND.

Inventors : 1. STUART JOHN BRIGGS; 2. DAVID JOHN PARKER, 3. PETER SCHLUTER.

Application for Patent No. 212/Mas/84 dated 30th March 1984.

Convention dated on 31st March 1983. No. 8309054. (U.K.)

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims.

A master cylinder for vehicle braking systems comprising a pressure cylinder, a reservoir mounted thereon, first and second mounting formations respectively on the cylinder and the reservoir; one of the formations having a groove providing a planar retaining surface, a flange on the other mounting formation provided a planar retaining surface thereon directed oppositely to the retaining surface of said groove, and a separate locking device which, with the flange disposed adjacent said groove, engages in the groove in such a manner as to engage said oppositely directed retaining surfaces thereby to retain said reservoir and cylinder in assembled operative relationship.

Compl. Specn. 9 pages.

Drgs. 3 sheets.

CLASS : 32 C & 40 F.

160634.

Int. Cl. : A 23 j 1/06.

A METHOD OF FRACTIONATING PLASMA BY MEANS OF ION EXCHANGERS OF THE ANIONIC AND CATIONIC TYPE.

Applicants : RHONE-POULENE RECHERCHES, OF 25, QUAI PAUL-DOCUMER, 92408 COURBEVOIE CEDEX, FRANCE; AND INSTITUT MERIEUX, OF 17 RUE BOURGELAT, 69002 LYON, FRANCE; BOTH FRENCH BODY CORPORATES.

Inventors : (1) ADRIEN DROMARD, (2) MICHEL EXERTIER, (3) CLAUDE ROLLIN, (4) MICHEL TARDY AND (5) JEAN LOUIS TAYOT.

Application No. 222/Mas/84 filed March 30, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

18 Claims.

A method of fractionating plasma by means of ion exchangers of the anionic and cationic type, comprising putting a solution of plasma into contact with at least one partially hydrophobic carrier such as herein described which is or is not an ion exchanger, and with at least one hydrophilic carrier that is an ion exchanger, the or each of the carrier being, independently of the other, a matrix of a natural polysaccharide polymer, a matrix of a synthetic polymer, an inorganic oxide coated with a polysaccharide polymer or an inorganic oxide coated with a film of cross-linked synthetic polymer, the pH and the ionic force of the plasma solution being adjusted in known manner in order to selectively fix either the albumin or the other proteins or impurities on the support and then to elute the fixed materials by means of a buffer solution.

Compl. Specn. 30 pages.

Drg. Nil.

CLASS : 128 K.

160635.

Int. Cl. : A 61 b 17/28.

SURGICAL FORCEPTS.

Applicant & Inventor : BELLANA SITARAMA MURTHY, AN INDIAN NATIONAL, OF SRINIVASA CLINIC, GAJAPATHINAGARAM 531270, VIZIANAGRAM DISTRICT, ANDHRA PRADESH.

Application No. 236/Mas/84 filed on 5th April, 1984.

Complete Specification left on 3rd July 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

A surgical forceps comprising a pair of arms movably connected by a box joint, one end of each of said arms having a holding means and the said arms capable of being held in the locked position by a locking means, the opposite ends of said arms are tapered to smooth and even surfaced blades and the tips of the oppositely faced blades having transversely placed grooves/serrations therein characterized in that the tips of the blade ends of said arms are bent in such a way as to align said grooves/serrations with each other and the arrangement being such that when the forceps is in the locked position the blades are in close proximity and a gap not more than 2 mm is maintained between the blades from the joint till the tip.

Provl. Specn. 4 pages.

Drgs. 2 sheets.

Compl. Specn. 8 pages.

Drg. Nil.

CLASS : 3 F, 136 F.

160636.

Int. Cl. : B 22 c 9/00.

COMPOSITE AND DURABLE FORMING MODEL WITH PERMEABILITY.

Applicant : SINTO KOGIO LTD. OF NO. 7-23, MEIEKI 4-CHOME, NAKAMARU-KU, NAGOYA-SHRI, AICHI-KEN, JAPAN. A JAPANESE COMPANY.

Inventors : 1. AKIRA YANAGISAWA, 2. NIROYUKI NOGUCHI, 3. TAKEO NAKAGAWA, 4. TAKELURO INAGAKI, 5. YOSHIKAZU HAYASHI, 6. MASANOBU TSUCHIDA, 7. TOYOJI FUMA.

Application No. 247/Mas/84 filed on 9th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims.

Composite and durable forming model with permeability, comprising composite sintered product where aggregates are metallic grains and ceramic grains, said composite sintered product having close hardened layer which is dispersed with metallic oxides on an outer circumference including at least a model face, and the said hardened layer having fine air vents in thickness by passing of evaporation or consumable substances contained in a biner such as herein defined which is mixed in the aggregates, and wherein an entire body of the model has 5 to 60% porosity and more than 100 Kg/cm² compression strength.

(Complete Specification 44 Pages)

(Drgs. 11 Sheets)

CLASS : 129 G.

160637.

Int. Cl. : B 24b 7/00.

DEVICE FOR APPLYING SURFACE PRESSURE TO ADVANCING WORKPIECES.

Applicants : FIRMA THEODOR HYMMEN KG. OF THEODOR-HYMMEN-STR. 3, 4800 BIELEFELD 1, FEDER-RA LREPUBLIC OF GERMANY, A GERMAN COMPANY.

Inventor : WERNER PANKOKE.

Application No. 263/Mas/84 filed on 12th April 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1974) Patent Office, Madras Branch.

11 Claims.

A device for applying surface pressure to workpieces advancing on at least one movable compression belt comprising means for forcing the workpiece against the belt including a pressure chamber adjacent to the belt and a hose therein respective of a pressure medium and a continuous sealing strip between the pressure chamber and belt for sealing off the pressure chamber and means mounting the strip such that the belt slides therealong, including a pressure plate having a groove and a holder in the groove, characterized in that the means mounting the strip further comprises at least one lateral recess, situated in the holder transversely to its length and to the surface of the belt connected to the pressure plate and having adjustable guide means disposed in the recess.

(Complete Specification 13 Pages). . (Drugs. 2 Sheets)

OPPOSITION PROCEEDINGS

(1)

An opposition has been entered by Robert Bosh Gmbh to the grant of a Patent on application No. 150541 made by Stanadyne INC. as notified in the Gazette of India Part III, Section 2 dated 21-5-83 has been dismissed and order that the application for Patent to be sealed.

(2)

An opposition has been entered by Cement Research Institute of India to the grant of a Patent on application No. 151593 made by Orissa Cement Ltd. as notified in the Gazette of India Part III Section 2, dated 31-12-83 has been dismissed subject to amendment in the Specification and ordered that a Patent to be sealed.

(3)

An opposition has been entered by M/s. Bajaj Auto Limited to grant of a patent on application No. 158533 dated 16th July, 1982 made by Piaggio & C.S.P.A.

(4)

An opposition has been entered by National Research Development Corporation of India to the grant of a Patent on application No. 158620-II made by Hemex Inc.

(5)

An opposition has been entered into by GEO. TECH. CONSULTANTS PVT. LTD., NEW DELHI to the grant of a patent on application for Patent No. 158625 made by M/s. Cemindia Company Limited, Bombay.

(6)

An opposition has been entered into by Asia Foundation and Constructions Limited, Bombay, to the grant of a Patent on application for Patent No. 158625 made by M/S. Cemindia Company Limited, Bombay.

(7)

An opposition has been entered by Harish Textile Engineering Private Limited to the grant of a Patent on application No. 157363 made by West Point Papperell as notified in the Gazette of India Part III Section 2 dated 27-9-86 has been treated as abandoned and no Patent shall be granted thereon.

PATENT SEALED

151803	151827	156238	156891	157083	157084	157095
157148	157443	157493	157588	157704	157716	157810
157811	157844	157851	157867	157893	157894	157903
157910	157918	157919	157920	157930	157934	157941
157943	157948	157949	157950	157987	158015	158034
158045	158046					

AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendment proposed by Schubert & Salzer Maschinen Fabrik Aktiengesellschaft in respect of Patent No. 156238 as advertised in the Part III, Section 2 of the Gazette of India dated the 9th February, 1985 has been allowed.

COMMERCIAL WORKING OF THE PATENTED INVENTIONS

MECH. ENGG. LIST NO. IV.

The following Patents in the field of Mechanical & General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of calendar Year 1984 generally on account of want of request for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentees	Title of the invention
146074	29-12-1976	DOWTY HYDRAULIC UNITS LIMITED, of Arle Court, Cheltenham, England.	A railway wagon speed control device.
150001	22-5-1979	Oswald Brunn, Bunzlaner Plate, D-8000, Munchen 50, West Germany.	Combination Furniture.
150004	12-9-1979	Toyota bldg. 7-23, Meicki-4-chome, Nakamura, Nagoya, Japan.	Moulding machine.
150025	25-7-1979	of Toyota, Bldg. 7-23, Meicki-4-Chome, Nakamura, Nagoya, Japan.	Moulding apparatus.
150042	30-8-1979	REDIFFUSION ADVERTISING P. LTD, at 4th Flr. 167 Dr. Annie Besant Road, Bombay-400 018. Maharashtra, India.	Removable interlocking type for mounting circular type rollers of marking and coding machines.

1	2	3	4
150058	6-10-1978	The Indian Cable Company Limited of a Hare Street, Calcutta 700 001, West Bengal, India	An improved insulating tape formed from a self amalgamating blend
150082	28-6-1978	GENERAL ELECTRIC COMPANY, 1, River Road, Schenectady 5, New York, U S A	Annular metal cutting discs of titanium carbide coated tool steel, and method of cutting metal rods
150099	24-7-1978	Johnson & Johnson of 501, George Street, New Brunswick, New Jersey, U S A	Normally nontacky adhesive tape
150100	18-8-1978	T. Senzimir Inc., of 269 Brookside Road, Waterbury, Connecticut 06720, U S A	A rolling mill arrangement
150110	22-8-1979	Sintokogio Ltd., of Toyota Bldg., 7-23, Meichi-4, Chome, Nakamura-ku, Nagoya Japan	Method of & apparatus for moulding a rag mould part
150116	7-6-1978	KRAFTWERK UNION AKTIENGESELLSCHAFT, 4330, Mulheim (Ruhr), Wiesenstr. 35, West Germany	Damping arrangement for turbo machine rotors
150120	15-6-1979	T. SENDZIMIR INC., of 269, Brookside Road, Waterbury, Connecticut 06720, U S A	Rolling mill
150121	18-8-1978	Do	Cluster rolling mill
150122	18-8-1978	Do	A cluster rolling mill
150124	8-9-1978	Bechtel International Corp. of 50 Beale Street, San Francisco, California, U S A	Apparatus for providing back pressure in a slurry pipeline
150129	14-3-1979	Hein Lehmann A.G. Aktiengesellschaft, 4 Dosseldorfer Fichtenstr. 75, West Germany	A screening machine
150157	21-3-1980	COMAUSTION ENGINEERING, INC. of 1000, Prospect Hill Road, Windsor, Connecticut, U S A	Combination of a fluidized bed reactor including a grid plate X means for introducing particulate matter on the upper surface of the grid plate
150160	19-7-1978	Sushil Chandra Srivastava, Qr. No. E-91, B I T P O Mesra, Dist Ranchi, Bihar (India)	Fluid valve operative by pressure reflex action
150284	6-12-1978	INTERNATIONAL BUSINESS MACHINES CORPORATION, of Armonk, New York 10504, U S A	Typewriters including erase apparatus
150298	20-2-1979	Combustion Eng. Inc. of 1000 Prospect Hill Road, Windsor, Connecticut, U S A	A fluidized bed boiler with means for delivering fluidizing air to the bed of the boiler
150363	9-8-1978	E I Du Pont De Nemours & Company, Wilmington, Delaware, U S A	A method of anchoring or fixing a reinforcing member in a hole in a compartmental package grouting system for use therein
150401	26-12-1978	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG NEW DELHI	A process for the production of cased glass ware
150424	10-5-1978	Bandag Inc., Assignee of Vacuum Vulk. Holdings Ltd., of 360, Queen Street, Nassau/Behamas	Method of And device for retreating work pneumatic or solid rubber tyre and a type Retreaded by said method.
150499	6-1-1979	Wilhelm Erich and Gustav Erich, of Bahnhofstrasse, 1a, Walldorfstrasse 41, Hardheim 6969, West Germany	Preparation and crushing device particularly for refuse material
150508	18-4-1978	LODWIN ELSEBET AND GUNTER ELSEBET, of 14, D 8543, Hilpoltstein, West Germany	Piston for reciprocating internal combustion Engines, typically diesel engines
150517	20-11-1979	Combustion Engineering, INC. of Delaware, U S A	An apparatus for handling potentially explosive fines such as flyash
150531	19-3-1979	GIRLING LIMITED, of Kings Road, Tyseley, Birmingham 11, England	Improvements in disc brakes for railway vehicles
150619	20-3-1979	P W T PLASTIC WORLD TECHNOLOGY LIMITED, of 9495, Triesan, Liechtenstein	A method X apparatus for the continuous extrusion and blowing of thin films of plastic material in particular rigid P V C
150647	19-9-1978	GENERAL ELECTRIC COMPANY, 1, River Road, Schenectady 5, New York, U S A	A process for preparing a poly crystalline diamond body

1	2	3	4
150662	11-4-1979	Satake Engineering Co. Ltd., No. 1-19-10, Veno, Tailoku, Tokyo, Japan.	Automatic control apparatus for a grain-separator.
150663	12-4-1979	MINNESOTA MINING AND MANUFACTURING COMPANY of 3M Center, Saint Paul, Minnesota 55101, U.S.A.	Double acting latch for linged plastic box.
150745	19-2-1979	ESMIL BV, Station Street 48, Amersfoort, The Netherlands.	Apparatus for performing physical and for chemical process involving atleast one liquid, E.G.A. heat Exchanger.
150748	2-5-1979	BELOIT CORPORATION, Wisconsin, U.S.A. 53511.	Apparatus for reeling a plurality of ribbons particularly from a slit paper web on to arcel pool.
150752	4-10-1979	BELOIT CORPORATION, Wisconsin, U.S.A. 53511.	Improvements in and relating to turn shute assembly for handling firm strip severed by a slitter from the margin of travelling web.
150796	20-3-1980	Theo Stahler, Muhlenhat 6253 Hadamar-Nieder-Zeuzheim, West Germany.	Device for aerating sewage and sewage-sludges.
150808	29-8-1979	Degussa, Deutsche Gold- und Silber Scheideanstalt Vaimals, Ressler.	Apparatus for mixing of fluids.
150811	25-9-1979	COMBUSTION ENGINEERING, INC of Delaware, U.S.A.	Apparatus for providing supplemental pulverized coal for load regain on a pulverized coal-fired steam generation.
150818	27-1-1979	LOCKHEED CORPORATION, at 2555 North Hollywood Way, Burbank, California 91520, U.S.A.	Wave powered motor.
150847	7-4-1979	John Stewart Lawson Baker, Kings House, Tilington, Petwarth, Sussex, England.	Process and apparatus for spraying liquid.
150843	15-5-1979	SPIRAX SARCO LIMITED, of 130-132, St. Georges Road, Cheltenham, GL50, 3EN, Gloucestershire, England.	Fluid flow monitor for use in a steam flowline
150952	12-6-1980	Metallgesellschaft AG 16 Frankfurt A M Reuterweg, West Germany	Process of heat treating pellet.
150953	11-8-1980	Beloit Corporation, Wisconsin-53511, U.S.A.	An improved extended Mippress for removing water from a travelling web in a paper machine
150991	15-7-1980	Hitachi Ltd, 5-1, Marunouchi-1, Chome, Chiyoda-ku Tokyo, Japan	Winding Machine
150992	10-8-1978	Johnson & Johnson, 501, George Street, New Brunswick, New Jersey, U.S.A.	A process for producing adhesive taper and sheets from thermoplastic elastomeric materials.
150999	3-3-1979	MINNESOTA MINING AND MANUFACTURING COMPANY, of 3M Center, Saint Paul, Minnesota 55101, U.S.A.	A process for forming a transparent imaged film having a mottle free resistant coating abrasion
151001	26-10-1979	WM R STEWART & SONS Ltd, of Marine Parade, Dundee DD 13JD, Scotland	Lag or stove assembly for kinschnei beaters.
151042	17-2-1979	Council of Scientific & Industrial Research Rafi Marg, New Delhi	A machine for shipping wood into fine chips.
151051	21-4-1979	Combustion Engineering, INC 1000, Prospect Hill Road, Windsors, Connecticut, U.S.A.	An improved fuel-air admission assembly for pulverised coal-fired steam generators.
151052	21-4-1979	Combustion Engineering, Inc 1000 Prospect Hill Road, Windsor, Connecticut, U.S.A.	An improved fuel air admission assembly for pulverised coal-fired furnaces.
151058	10-7-1979	Combustion Engineering, Inc, 1000, Prospect Hill Road, Windsor, Connecticut, U.S.A.	A method of forming a socket weld connection
151059	19-11-1979	Miroea Borooman, 8 Rue des Dardancier 7507, Paris France	Rotary drum plant for the manufacture of concrete reinforce concrete and an prentierred concrete products
151060	20-12-1979	Karykion Inc 29, Lowery Drive, Atherton, California, 94025, U.S.A.	A method for the producing of dried coconut meat

1	2	3	4
151067	22-2-1979	Combustion Engineering, Inc 1006 Prospect Hill Road, Windsor, Connecticut, U S A	Improvements on a fluidized bed system.
151073	24-4-1979	BECHTEL, International Corp 50, Beakle Street, San Francisco, California, U S A	Apparatus for slask flow elimination in a slurry pipeline.
151110	5-1-1979	Environmental Elements Corporation, 3700, Koppers Street, Baltimore, MD21227, U S A	A cell system made of synthetic plastic material for multi-cell granular media filters
151143	6-6-1980	Beloit Corporation, Beloit, Wisconsin 53511, U S A	Paper making machine with means facilitating stringing
151147	8-1-1979	ALCAN RESEARCH AND DEVELOPMENT LIMITED, of 1, Place Vile, Maric, Montreal, Quebec, Canada, Manufacturers	Aluminium articles having an anodic oxide coating surfaces and method of making such articles
151150	26-2-1979	Bharat Heavy Electrical Ltd., 18-20, Kasturba Gandhi Marg, New Delhi 1, India	Improvements in or relating to a method of manufacture of Y-type consumable insert for root pass welding the inserts manufactured by the method and an apparatus therefor
151152	26-3-1979	Do	Improvements in or relating to a device for lapping and for polishing metal surface
151303	10-7-1979	HENRY JAMES FENROY GERRAND, 25, Haldane Street, Beaumaris, 3193, Victoria, Australia	Method of forming wheels and pulleys thereby formed
151224	19-6-1979	Frederic Harold Hyde 4370, Commonwealth of Australia	Chain Saw Sharpening Apparatus
151372	29-11-1979	Hitachi Ltd, 5-1, 1-Chome marunouchi, Chiyoda-ku, Tokyo, Japan	Improvements in an operating force transmitting mechanism in a gas circuit breaker
151374	19-5-1980	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, of 1860, P O Polytechnic, Ahmedabad-15, Gujarat, India	A device for holding a pair of tubes or a tube and a cylindrical rod of different diameters for concentric or desired alignment thereof
151392	9-11-1978	SIEMENS AKTIENGESSELLSCHAFT, Berlin and Munich, West Germany	Device for indicating the level of a convey or at different heights for example in mining
151417	23-2-1979	CORNING GLASS WORKS, of Houghton Park, Corning, New York, 14830, U S A	An optical waveguide and a method of making the same
151443	17-10-1979	SCHUBERT AND SALZER MASCHINE OF NFABRIK ADTIENGESSELLSCHAFT, Friedrich-Ebert-Strasse 84, 8070, Ingolstadt, West Germany	Combing Machine
151479	16-7-1979	ELEKTROITHERMIT GMBH, of Gerlingstr 65, 4300, Essen, West Germany	A process of joining rails with aluminothermic welds and a casting mould for use in carrying out the process
151530	18-11-1980	ASSUT S A A of Avenue des Jordils, 3, 1000 Lausanne, Switzerland, of Swiss Nationality.	A method for manufacturing an improved catgate suture
151551	17-4-1979	BECHTEL, International Corp 50 beale street, San Francisco, California, U S A	Improvements in or relating to apparatus in a slurry pipe line station for pumping slurry
151553	26-10-1979	Continental Pharma Inc, 135, Avenue Louise, 1050, Brussels (Belgium)	Apparatus for proportioning malon dialdehyde
151562	16-4-1979	Prerovske Strojirny, Naodni Podnik, Prerov, Czechoslovakia,	Device for pre-heating and partial calcination of granular and lump material
151569	14-7-1980	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, of 1860, P O Polytechnic, Ahmedabad-15, Gujarat, India	Device to measure, indicate and/or control within present limits stretch/Shrinkage of a sheet material
151604	12-6-1979	CORNING GLASS WORKS, of Houghton Park, Corning, New York, 14830, U S A	Method of producing gas filaments
151609	19-2-1980	MICHELIN & CIE., of 4 rue du Terrail, 6300, Clermont, Ferrand, France	Method of manufacturing tyre bead rings
151642	3-9-1979	Beloit Corporation, Wisconsin 53511, U S A	Apparatus and method for handling a continuous by running creped tissue web
151714	22-9-1980	SPINDELFABRIK SUESSENS, CHURRA Stahlecker & Grill G m b H, of Germany, Dammstrasse 1, 7334, Sussen, F R G	A device for interrupting the supply of roving in drafting systems

1	2	3	4
151722	5-6-1979	Maschinenfabrik Buckau R. Wolf, AG, Gravenbroich, Linderstr. 43, West Germany.	Rolls for sugarcane mill.
151727	29-10-1980	Beloit Corporation, P. O. Box 350, Beloit, Wisconsin, U.S.A.	An extended nip press for a paper making machine.
151726	14-9-1979	United Technologies, 1, Financial Place, Hartford Connecticut 06101, U.S.A.	A retention device for a rotor blade for use in wind turbines.
151782	11-6-1980	ASSOCIATED ENGINEERING ITALY, s. P.A. Strada valdellaforre M-2700, Alpignano, Turin, Italy.	An improvement relating to the diesel engine pistons.
151848	3-9-1979	Beloit Corporation, Wisconsin 53511, U.S.A.	A press mechanism for removing liquid from a travelling fibrous web.
151858	3-9-1980	Beloit Corporation, Wisconsin 53511, U.S.A.	Improvements for effecting fibre orientation in a paper making machine headbox.
151894	18-4-1980	Optilon W.R. Erich Heilmann GmbH Ried strasse 3, CH-6330, Cham, F.R.G.	Slide fastener.
151925	21-11-1980	VORHAUER LABORATORIES, LTD., at 130, McCormick Avenue, No. 104, Costa Mesa, California 92626, U.S.A.	A method for forming a biocompatible tampon, cont. acceptive sponge.
151932	18-5-1979	ROP INC. of UOP Plaza, Algonquin & Mt. Prospect Roads, mes Plaines, Illinois 60016, U.S.A.	Vehicle seats.
151993	26-10-1979	Krauss-Meffei Ag. 2, Krauss-Meffei-strasse, Munchen, West Germany.	Rotary Filter.
152039	17-6-1981	Chin-San You, No. 3, Lane 1029, Fong-Shih Road, Wens-Tenz LI, Long Yuan City, Taiwan.	A reinforced racket frame and method of producing the same.
151197	14-6-1979	MORGAN CONSTRUCTION COMPANY, of 15 Belmont Street, Worcester, Massachusetts, U.S.A.	Process and apparatus for sequentially forming and treating steel rod.
152057	14-5-1979	THE GOODYEAR TYRE AND RUBBER COMPANY, of 1144 East Market Street, Akron, Ohio, U.S.A.	Apparatus for forming traction groover in the uncured tread of a heavy off-highway tire.
152130	18-5-1979	PETER ANTHONY HOCHSTEIN, of 14020, Fifteen Mile Road, Sterling heights Michigan 48077, U.S.A.	A thermal energy converting as
152170	30-5-1981	DR. C. OTTO & COMP. GMBH, of Chris- tstrasse 9, 4630, Bochum, West Germany.	Closing and opening device for u ovens.
152184	14-3-1979	SHINZ KITAMURA, at 1-18-Deguchi, 1- Chome, Hirakata-shi, Japan.	Bobbin hanger.
152258	11-9-1979	GENERAL ELECTRIC COMPANY, 1, River Road, Schenectady S, New York, U.S.A.	A process for producing a polycrystalline body of a predetermined shape.
152327	23-6-1981	Kusel Equipment Company, 820, West Street, P.O. Box-87, Water town, Wisconsin 53094, U.S.A.	An improved portable chesse press frame assembly.
152357	28-11-1981	Metallgesellschaft AG. 16 Frankfurt A.M. Reuterweg, West Germany.	Nozzle block for rotary kiln.
152378	9-5-1980	Aluminium Pechiney, 28, Rue de Bonnel 69003, Lyon, France.	Apparatus for the dust-free handling substances.
152388	19-6-1979	PIERRE JOSEPH DE PINGON, AT 7 Avenue Du Parmelau, 74000, Annecy, France.	Articalated catamaran.
152439	10-9-1980	VOEST-ALPINE AKTIENGESELLSCHAFT, A-1011 Vienna, Friedrichstrasse 4, Austria.	Conveying equipment for a mining machine.
152441	13-5-1981	KRAFTWERK UNION AKTIENGESELLS- CHAFT, 433, Mulheim (Ruhr), Wiesenstr. 35, F.R.G.	Hydraulic drive apparatus for turbine valves.
152475	22-6-1979	SOUTHWIRE COMPANY, of 126 Fertile Street, Carrollton, Georgia 30117, U.S.A.	Method for heating and melting a non-ferrous metal charge in a furnace.

1	2	3	4
152471	30-5-1981	LUCAS INDUSTRIES LTD., of Great King Street, Birmingham, B19 2×F, England.	Hose connector.
152524	4-6-1980	STAMICARBON B.V., of P. O. Box 10, Geleen, The Netherlands.	Process for the preparation of Filaments of high modulus and tensile strength.
152657	30-6-1980	DR. C. OTTO & COMP. GMBH., of Christstrasse 9, Postfach 1849/1850, 463. Bochum, West Germany.	A method of manufacture of coke.
152680	2-6-1980	DR. C. OTTO & COMP., GMBH of Christstrasse 9, Postfach 1849/1850, 463 Bochum, West Germany.	A method of renewing the brickwork of coke ovens.
152740	2-8-1980	Westinghouse Electric Corporation, Westinghouse Bldg., Pittsburgh, Pennsylvania, U.S.A.	Method of applying an entiveffective coating on silicon & a coated silicon chip thereby obtained.
152870	5-11-1979	THE JACOBS MANUFACTURING COMPANY, at Bloomfield, County of Harford, Connecticut, 06002, U.S.A.	Engine braking system of a gas compression relief type.
153081	25-7-1980	TECHMSEH PRODUCTS, of Tecumseh, Michigan 49286, U.S.A.	A radial compressor.
153240	23-10-1979	I.S.C. Smelting Limited, of 6th St. James' Square, London SW1Y, 4LD, England.	Lead splash condenser.
153450	1-12-1980	THE JACOBS MANUFACTURING COMPANY, at Bloomfield, County of Harford, Connecticut 06002, U.S.A.	Engine braking apparatus of the gas compression release type.
153518	15-5-1979	SCHUBERT ; SALZER MASCHINEN-FABRIK AG., of Friedrich-Ebert-Strasse 84, 8070, Ingolstadt, West Germany.	Method of cladding a housing of an opener device for an open and spinning machine and a cladded housing obtained thereby.
149297	5-7-1979	LUCAS Industries Public Limited company, of Great King Street, Birmingham 19, England.	A servo booster for a vehicle braking system.
151354	10-7-1980	NATRAJAN DEVENDRAN, Proprietor of Police Mirror industries, P. O. Box 3151, C-14, Industrial Estate, Guindy, Madras, India.	A method of producing a bonded laminate of frangible sheets and a laminate produced thereby.
151873	7-4-1981	Lucas Industries Public Limited Company of Great King Street, Birmingham 19, England.	Master cylinder.
152181	23-2-1981	Do.	A servo booster for vehicle braking system.
152469	1-4-1981	Do.	A method of manufacturing a master cylinder.
137277	10-9-1973	Reichhold Chemicals Inc., Ferro Corporation, 1, Erieview Plaza, Cleveland State of Ohio, U.S.A.	Apparatus and method for the continuous production of glass fiber strand.
137404	5-6-1973	D. & K. Orenstein, Orenstein and Kappel Aktiengesellschaft, 2400 Lubeck, Einsiedelstrass 6, German Federal Republic.	A buckel wheel.
137577	12-6-1973	Hoesch Maschinenfabrik Deutschland AG., Borrigstrasse 22 46, Dartmand, Federal Republic of Germany.	Device for the re-railing of rail vehicles.
137786	7-7-1973	R.A. LISTER & COMPANY LIMITED, of Long Street Dursley, Gloucestershire, GL11 4HS, England.	Lubricating pump.
137797	18-6-1973	Nippon Hoso Kyokai, 2-3, 2-Chome, Uchisuiwai Cho, Chiyoda-ku, Tokyo, Japan.	A frequency converting device.
137963	10-6-1974	Dr. Dasarathi Benerge of Escon Consultants Private Ltd., 7-A, Elgin Road, Calcutta-700 020, West Bengal, India.	Improved buffer springs for railways and their assembly in buffer casings.
138114	19 7-1973	Silo Verfahrens AG, CH 6301, Zug/Switzerland.	Apparatus for the production of a tube.

1	2	3	4
138115	3-11-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA, of No. 2-1, 2-chome, Otc-Machu, Chiyoda-ku, Tokyo-to, Japan.	Process and apparatus for making cement clinker by burning raw materials.
138310	21-7-1973	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi.	Angle-beam probe for ultrasonic non-destructive testing.
138353	5-7-1983	Ampliform PVT. Ltd., Comateo (J & S.) Pvt. Limited, as Collins Street, Melbourne, State of Victoria, Commonwealth of Australia.	Method & apparatus for sheeting strip material.
139071	24-7-1974	Anindya Saha, Gopeshwar Saha, An Indian Citizen, C/o. Hind Refractories Ltd., Duryapue, West Bengal.	Novel Process of repairing, rebuilding and joining broken or damaged refractories.
139073	1-5-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., of the Netherlands, of Carel Van Bylandtlaan 30, The Hague, The Netherlands.	An atomiser and a process for the partial combustion of fuel using the atomiser.
139210	6-7-1974	SECIM, of 107 Boulevard De La Mission Marchand, 92400 Courbevoie, France, and Societe De Vente De L'Aluminium Pechiney, of 23 bis, Rue De Balazac, 75008, Paris, France.	A method and a device for manufacture of a product rolled continuously from a blank obtained by continuous coating into a gloved wheel.
139370	9-8-1975	E.I. DU Pont De Nemours & Company, Wilmington Delaware, U.S.A.	Improvements in and relating to compartmental package and process for forming such package.
139516	4-5-1973	American optical Corporation, 14, Mechanic Street, Southbridge, State of Massachusetts, U.S.A.	Aperture viewing zoom lens, system.

COMMERCIAL WORKING OF THE PATENTED INVENTIONS

MECHANICAL & GENERAL ENGINEERING INDUSTRY LIST NO. V.

The following Patents in the field of Mechanical & General Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under Section 146(2) of Patents Act, 1970, in respect of calendar Years 1984-1985 generally on account of want of request for licences to work the Patented inventions. Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of a licence for the purpose.

Patent No	Date of Patent	Name & Address of Patentees	Title of the Invention
1	2	3	4
141097	14-4-1976	Nambamudi Sinniah Vellayuthan Sinniah, Velaipatty, Kattampoor P. O., Ramnad Dist., Tamil Nadu.	A rotary pump.
144400	19-8-1976	THE VAZIR SULTAN TOBACCO COMPANY, of Azamabad, Hyderabad 500 020, Andhra Pradesh, India.	Improvements in or relating to blanks for cartons.
145432	23-2-1977	MUSBA MOHAMED ANSAR, of 73 Angappa Naicken Street, Madras 600 001, Tamil Nadu, India.	Improvements in or relating to disposable pilfer proof bags or containers.
145433	23-2-1977	Do.	Improvements in or relating to disposable pilfer proof bags or containers.
145610	23-2-1977	Do.	Improvements in or relating to disposable pilfer proof bags or containers.
148456	31-7-1978	Tube Investments of India Limited, 28, North Beach Road, Madras 600 001, Tamil Nadu, India.	A metallic lightweight structural members.
148580	28-9-1978	Brakes India Limited, at Padi, Madras-600 050, Tamil Nadu, India.	A brake fluid reservoir of a hydraulic braking system.

1	2	3	4
148853	25-4-1980	ENNGARU VENKATA RAMA LAKSHMI NARAYANA, of 18-5-11, Bondadavari Street, Palakol 534 260, West Godavari District, Andhra Pradesh State, India.	An insect repellent candle and method for manufacturing such candle.
149236	16-6-1980	Brakes India Limited, Padi, Madras-600 050.	An improved cam brake.
149239	10-5-1979	GIRLING LIMITED, of Birmingham, England. Kings Road, Tyseley, Birmingham-11, England.	A disc brake for vehicles.
149241	5-4-1980	Brakes India Limited, at Padi, Madras-600 050	A Pedal mechanism for a hydraulic brake system.
149242	31-8-1979	Lucas Industries Public Limited Company, of Great King Street, Birmingham 19 England.	A servo booster assembly for vehicle braking system.
149294	5-7-1979	Lucas Industries Public Limited company, of Great King Street, Birmingham-19, England.	A servo booster assembly for a vehicle braking system.
149295	5-7-1979	Do.	A servo booster assembly for a vehicle braking system.
149296	5-7-1979	Do.	A servo booster assembly.
149382	22-8-1980	VELLAIPPAN VELAYUDAN THANGA THIRUPATHY, B.A., of No. 13, Sadasiva Pillai Lane, Chintadripet, Madras-700 002, Tamil Nadu, India.	A safety device for use in air or space crafts.
149394	8-2-1980	Lucas Industries Public Limited, of Great King Street, Birmingham 19, England.	A vehicle disc brake assembly.
149541	30-1-1980	Ashok Leyland Limited, Ennore, Madras-600 057, Tamil Nadu.	A pneumatic throttle retarder linkage assembly of overspeed limiting device meant for motor vehicles.
149638	11-12-1979	Lucas Industries public limited company, of Great King Street, Birmingham 19, England.	A railway disc brake assembly.
149798	29-10-1979	Do.	Brake actuating assembly for a vehicle braking system.
149834	19-9-1979	Do.	A disc brake assembly.
149835	9-1-1980	Do.	A friction pad assembly for rail vehicle brakes.
149898	11-12-1979	Do.	A disc brake for rail vehicles.
149968	22-3-1980	Do.	A self energising disc brake.
150046	11-12-1979	Do.	Master cylinder and reservoir assemblies.
150178	9-1-1980	Do.	Control valve assembly.
150265	28-11-1979	Girling Limited, of Birmingham, England.	Brake actuator.
150269	23-2-1981	Lucas Industries public Limited Company, of Great King Street, Birmingham 19, England.	A pin sliding caliper disc brakes.
150365	17-11-1979	Do.	Servo boosters for vehicle braking systems.
150358	5-3-1980	Lucas Industries Public Limited Company, of Great King Street, Birmingham 19, England.	A brake friction pad or shoe assembly.

1	2	3	4
150423	12-1-1981	Dr. JOSE SAMUEL, College of Agriculture, Vellayani, and KERALA AGRICULTURAL UNIVERSITY, Main Campus, Vellanikkara, Trichur-680654, Kerala State, India.	A self propelled device for multiplying the discharge capacity of a pumping quit and for harvesting floating type aquatic weeds,
150461	8-2-1980	Lucas Industries Public Limited Company, of Great King Street, Birmingham 19, England.	A friction lining wear indicator for shoe-drum brakes.
150635	9-1-1980	Do.	Vehicle load sensing arrangement.
150636	5-3-1980	Do.	Drum brake adjusters.
150673	7-7-1980	Lucas Industries Public Limited Company, of Great King Street, Birmingham 19, England.	A piston assembly for hydraulic master cylinder.
150779	21-5-1980	Do.	Automatically adjustable shoe-drum brake.
151332	12-6-1980	Do.	Internal shoe drum brake.
151352	21-5-1980	Do.	A brake having an automatic adjuster.

RENEWAL FEES PAID

138606	139790	140019	140105	141277	142141	142253
142282	142481	142535	143546	143943	144307	145142
145147	145501	145594	145600	145897	146451	146860
146957	147445	147610	147696	147715	148351	148889
149463	149558	149889	149984	150013	150025	150099
150120	150161	150209	150301	150905	151120	151136
151140	151252	151396	151450	151532	151639	152166
152380	152409	152487	152690	152740	152809	152877
152915	153044	153082	153140	153283	153472	153473
152915	153044	153082	153140	153283	153472	153473
153493	153478	153707	153721	153745	153838	153889
154042	154043	154045	154121	154167	154214	154216
154420	154438	154474	154475	154476	154523	154599
154600	154625	154738	154787	154789	154790	154798
154822	154944	155065	155196	155367	155413	155971
156046	156185	156246	156296	156425	156449	156533
156558	156601	156669	156804	156861	156897	156951
157044	157046	157355	157381	157408	157416	157609
157654	157722	157751	157756	157759	157760	157761
157835	157839	157895	157898	157952	157953	

(1)

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 150589 granted to Outokumpu Oy for an invention relating to "a process for producing pellets of predetermined size from a finely-divided material and an apparatus for carrying out the process."

The patent ceased on the 25-8-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 6-6-87.

Any interested person may given notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta 700017 on or before the 18th September 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he

seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155255 grant to Anand Automobiles for an invention relating to "package unit filter".

The patent ceased on the 24-9-87 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 6-6-87.

Any interested person may given notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta 700017 on or before the 18th September 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 155397 granted to American Standard Inc. for an invention relating to "a fluid pressure brake apparatus for a railway vehicle".

The patent ceased on the 4-9-86 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2, dated the 6-6-87.

Any interested person may given notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta 700017 on or before the 18th September 1987 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157770. Gem India Limited, A Company incorporated under the Companies Act, 2/90- Connaught Circus, New Delhi, India, An Indian Company. "Cigarette Lighter". 12th December, 1986.

Class 1. No. 157798. Metal Box p.l.c., a British Company

Class 1. No. 157798. Metal Box p.l.c., a British Company, of Queens House, Forbury Road, Reading RG1 3JH, England. a "Container Closure". Reciprocity 26th June, 1986 (U.K.).

Class 1. No. 157829. Twinkle Mercantile Limited, (a company incorporated under the Companies Act) of Prospect Chambers, D.N. Road, Fort, "Mixer Grinder". 31st December, 1986.

Class 1. No. 157883. Peico Electronics, and Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-400 018, Maharashtra, India, an Indian Company. a "Loudspeaker". 16th January, 1987.

Class 3. No. 157694. Hemant Gopal Apte, Apte Plastics 475/18, Sadar Bazar, Satara 415 001, Maharashtra State, India. "Folding Kitchen Tray". 24th November, 1986.

Class 3. No. 157752. Prabhat Industries : A-104/14, Wazirpur Industrial Area : Delhi-110052 (India) an Indian Partnership Concern. "Bottle". 10th December, 1986.

Class 3. No. 157753. Kant Plaste Industries, a Registered Indian Partnership Firm of 418, Sussex Industrial Estate, Byculla, Bombay-400 027, State of Maharashtra, India. "Water Bottle". 10th December, 1986.

Class 3. No. 157781. Citizen Brush Company, Near Masjid, Toplasarai, Saharanpur-247 001, Uttar Pradesh, State of India, a Partnership firm registered under the provisions of Indian Partnership Act. "Paint Brush". 16th December, 1986.

Class 3. No. 157782. Wind Technology Pty. Ltd., a Company incorporated under the laws of the State of Victoria, Australia, of Martin Road,

Bethanga, Victoria 3691, Australia, a Wind Powered Electric Generator". 16th December, 1986.

Class 3. No. 157784. International Hygiene Products : Block B-20/3, Okhla Industrial Area : Phase-II, New Delhi-110020 (India) an Indian Proprietorship Concern "Bottle". 17th December, 1986.

Class 3. No. 157832. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400004, Maharashtra, India, an Indian Partnership Firm. "Casserole". 31st December, 1986.

Class 3. No. 157841. V.I.P. Industries Limited, of V.I.P. House, 88C Old Prabhadevi Road, Bombay-400 025, Maharashtra, India, an Indian Company. "Suitcase". 1st January, 1987.

Class 3. No. 157868. National Industrial Corporation Limited (Unit Ajudhia Distillery), a company registered under the Companies Act 1956, Flat No. 8, Khan Market, New Delhi-110003, India. "Bottle Stopper". 14th January, 1987.

Class 3. Nos. 157869, 157870, 157871, 157874. National Industrial Corporation Limited (Unit Ajudhia Distillery), a company registered under the Companies Act 1956, Flat No. 8, Khan Market, New Delhi-110003, India. "Bottle". 14th January, 1987.

Class 3. No. 157876. National Industrial Corporation Limited (Unit Ajudhia Distillery), a company registered under the Companies Act 1956, Flat No. 8, Khan Market, New Delhi-110003, India. "Bottle". 14th January, 1987.

Class 3. No. 157882. Peico Electronics and Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-400 018, Maharashtra, India, an Indian Company. "a Loudspeaker". 16th January, 1987.

Class 3. No. 157894. Multichem Private Limited, National House, 6, Tulloch Road, Bombay-400 039, Maharashtra, India, a Private limited company incorporated under the Indian Companies Act "File clip". 19th January, 1987.

R. A. ACHARYA
Controller General of Patents, Designs
and Trade Marks.